

POWER AMPLIFIER

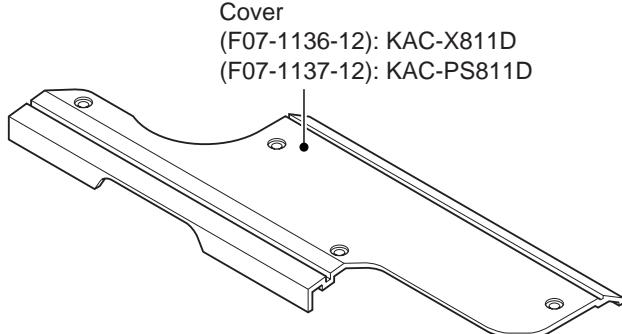
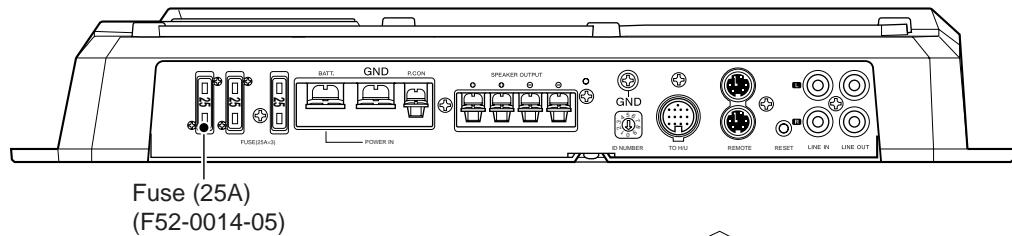
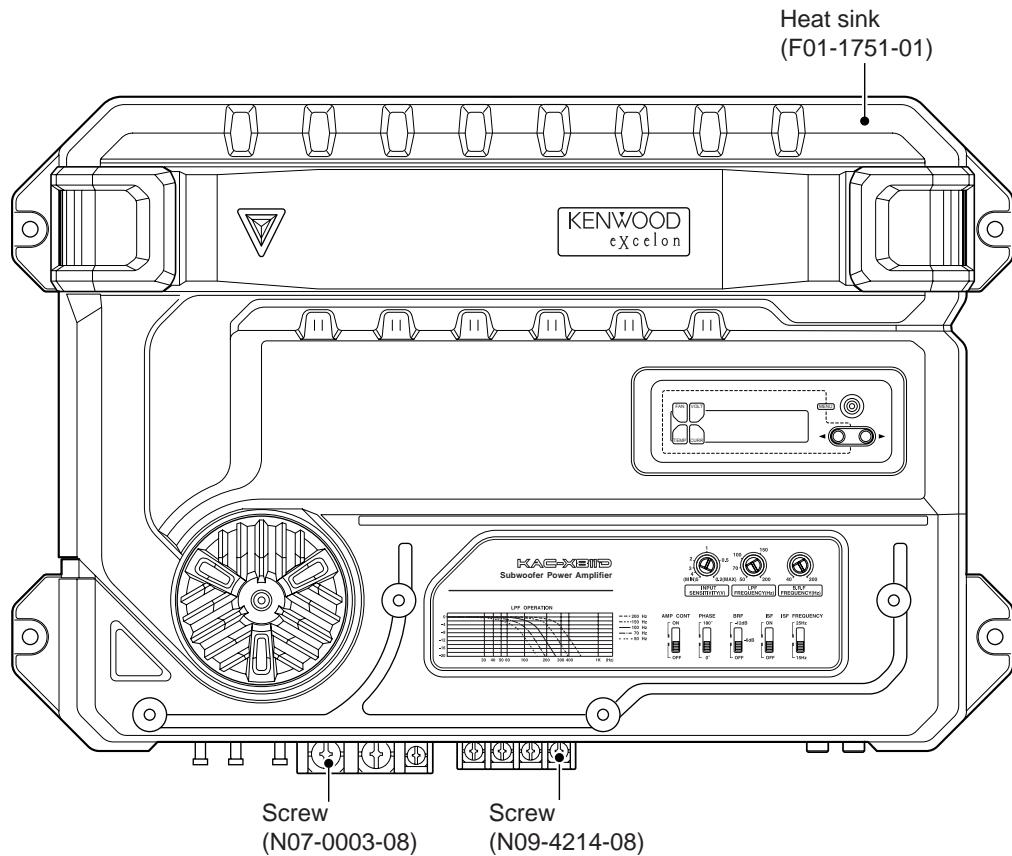
KAC-PS811D

KAC-X811D

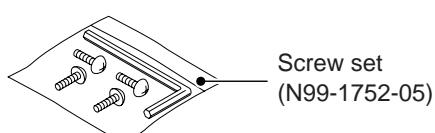
SERVICE MANUAL

KENWOOD

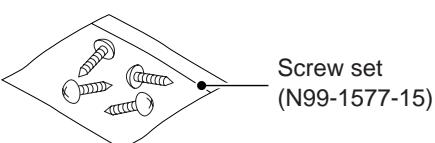
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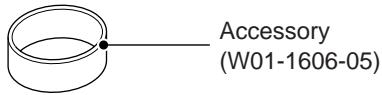
Cover
(F07-1136-12): KAC-X811D
(F07-1137-12): KAC-PS811D



Screw set
(N99-1752-05)



Screw set
(N99-1577-15)

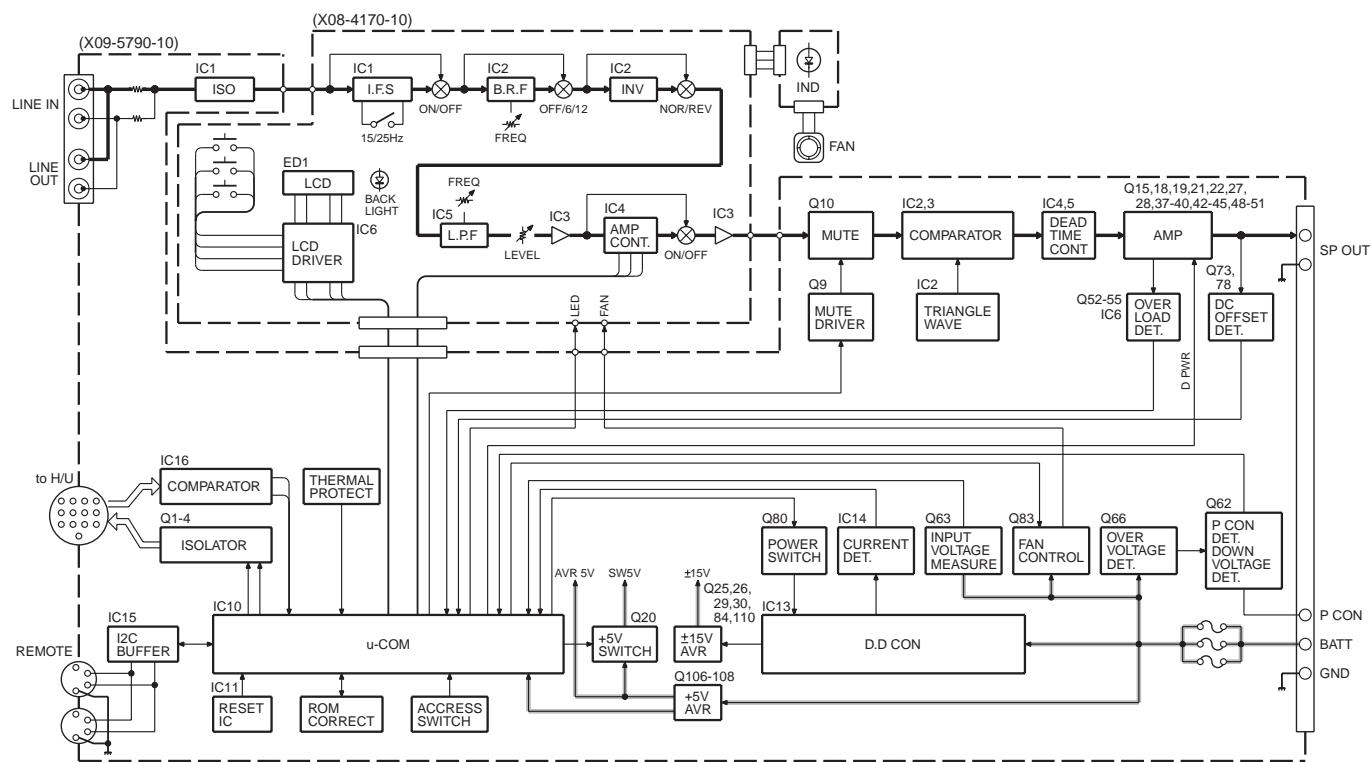


Accessory
(W01-1606-05)



KAC-PS811D/X811D

BLOCK DIAGRAM



COMPONENTS DESCRIPTION

● PREAMPLIFIER UNIT (X08-4170-10)

Ref. No	Application / Function	Operation / Condition / Compatibility
IC1	ISF	Cutting super-low range of audio signal
IC2 (1/4~3/4)	BRF	Cutting bandwidth of audio signal
IC2 (4/4)	INV	Phase reversal of audio signal
IC3	OP amplifier	Voltage amplification, Buffer
IC4	E-VOL	Electronic volume
IC5	LPF	Cutting high-range of audio signal
IC6	LCD driver	LCD driver

● AUDIO UNIT (X09-5790-10)

Ref. No	Application / Function	Operation / Condition / Compatibility
IC1	Isolation amplifier	Prevent noise from GND potential difference
IC2 (1/2)	Triangular wave generation	Reference signal for digitizing analog signal
IC2 (2/2)	Error amplifier	Error is compensated by the feedback from output
IC3	Comparator, Triangular wave generation	Digitizing by comparison of analog signal and triangular wave

COMPONENTS DESCRIPTION

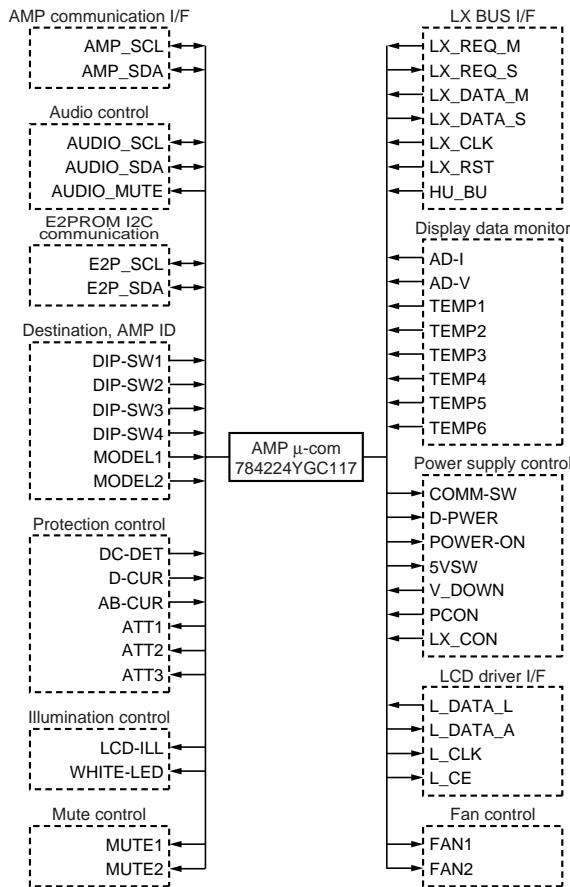
Ref. No	Application / Function	Operation / Condition / Compatibility
IC4,5	NAND	D class section reverse wave, deadtime, generation and rectification
IC6	Comparator	Short circuit detection of SP output
IC7	Signal amplification	For SP output short-circuit detection, send the output to comparator
IC10	Element operation control	Communication, display, protection, etc. control
IC11	Reset	Reset signal is output when voltage goes below standard voltage
IC13	DC/DC converter	Voltage on secondary side, which produces the drive signal for switching element, will be limited to below standard voltage
IC14	Signal amplification	To have μ com display current value, amplify potential differences of GND
IC15	Bi-directional buffer	Send/Receive data and clock between AMP
IC16	Comparator	Receive from H/U data and clock
Q1,2,5,7	Digital signal transmission	Send LX-REQ-M signal to H/U
Q3,4,6,8	Digital signal transmission	Send LX-DATA-S signal to H/U
Q9	Mute	Mute drive signal generation
Q10	Mute	Turn audio signal OFF
Q15,18,19,21,22,27, Q28,37~40,42~45	Signal amplification, switching	D class section voltage or current amplification
Q16,17	Voltage control	Match the beginning of the fall to +15V when -15V power supply is OFF
Q20	Voltage control	5V power supply ON/OFF
Q23,24,35,36,41,83	Voltage control	Fan voltage ON/OFF and limiting over voltage
Q25,29,84	AVR	+15V
Q26,30,110	AVR	-15V
Q31,33,46,109	Voltage control	D class section predrive stage power supply ON/OFF
Q47	AVR	D class section first stage supplementary power supply
Q52-55	Voltage current converter	Over current detection when SP is shorted
Q57,58,60,61, Q64,65,67~70	Switching	DC/DC converter switching
Q59,63	Voltage control	In order to have μ com display voltage value, send voltage to it only when 5V SW ON
Q62	Voltage detection	Pcon detection
Q66	Voltage detection	Pcon over voltage detection
Q71,72	Waveform shaping	For SP output short-circuit detection, send the output to comparator
Q73,78	Voltage detection	DC detection of output
Q74-77	Current amplification	Switching FET drive current amplification
Q79,80	Voltage control	DC/DC converter power supply ON/OFF
Q81,82	Voltage control	DC/DC converter drive waveform ON/OFF
Q88,89,98,99	Voltage control	5L digital signal reception
Q95,96	Voltage control	When Comm-SW of μ com is ON, turn communication system power supply ON
Q97	Voltage control	Normally 15V power supply and over voltage control
Q102,111	Voltage control	When Comm-SW of μ com is ON, turn communication system 5V power supply ON
Q103,104	Voltage control	LCD backlight and illumination LED control
Q106-108	AVR	μ com system 5V power supply.

KAC-PS811D/X811D

MICROCOMPUTER'S TERMINAL DESCRIPTION

● MICROPROCESSOR : 784224YGC117 (X09 : IC10)

◊ Block Diagram



◊ Terminal Function

Pin No.	Pin Name	I/O	Function	Processing Operation Description
1~3	TEMP4~TEMP6	I	Temperature detection 4~6	
4	AVSS	-	GND	
5	L_CE	O	CE output to LCD driver	H : LCD driver CE
6	LX_REQ_S	O	Data transmit request to H/U	H : OFF, L : ON
7	AVREF1	-	DA reference voltage	
8	L_DATA_L	I	Data input from LCD driver	
9	L_DATA_A	O	Data output to LCD driver	
10	L_CLK	O	CLK output to LCD driver	
11	LX_DATA_M	I	Data input from H/U	
12	LX_DATA_S	O	Data output to H/U	
13	LX_CLK	I	CLK input from H/U	
14	LX_BU	I	LX BUS communication, H/U connect detection	H : Not connect (Except master amplifier), L : Connect
15	NC	O	Not used	
16	SDA_AMP	I/O	Data input/output AMP communication	
17	NC	O	Not used	

MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	I/O	Function	Processing Operation Description
18	SCL_AMP	I/O	CLK input/output AMP communication	
19	AUDIO_SCL	I/O	CLK input/output with audio chip	
20	AUDIO_SDA	I/O	Data input/output with audio chip	
21	AUDIO_MUTE	O	Mute output to audio chip	H : Mute OFF, L : Mute ON
22	E2P_SCL	I/O	CLK input/output with E2PROM	
23	E2P_SDA	I/O	Data input/output with E2PROM	
24	NC	O	Not used	
25~28	DIP-SW1~DIP-SW4	I	AMP address setting	
29	MODEL1	I	Model setting 1	
30	MODEL2	I	Model setting 2	
31,32	NC	O	Not used	
33	VSS1	-	GND	
34~37	NC	O	Not used	
38	LCD-ILL	O	LCD backlight switch	H : ON, L : OFF
39	WHITE-LED	O	Triangle illumination switch	H : ON, L : OFF
40	NC	O	Not used	
41~43	ATT1~ATT3	O	Output attenuate due to rise in temperature 1~3	H : Attenuate, L : Not attenuate
44,45	NC	O	Not used	
46	COMM-SW	O	Communication IC power switch	H : ON, L : OFF
47~50	NC	O	Not used	
51	D-PWER	O	D class amplifier power supply control	H : ON, L : OFF (2ch/4ch L fixed)
52	DC-DET	I	Speaker output DC voltage detection	H : Normal, L : Abnormal
53	NC	O	Not used	
54	POWER-ON	O	Amplifier power supply control	H : ON (D/AB class), L : OFF
55	5VSW	O	5VSW	H : OFF, L : ON
56	MUTE1	O	Amplifier section input stage mute control	H : OFF, L : ON
57	MUTE2	O	Driver stage pop-noise mute control	H : OFF, L : ON
58	FAN1	O	Fan rotation control	H : Operate, L : Stop
59	FAN2	O	Fan speed control	H : Low speed, L : High speed
60	RESET	-	Hard reset	H : Normal, L : Reset
61	PCON	I	Amplifier power control	H : OFF, L : ON
62	LX_CON	I	LX-BUS communication control	H : OFF, L : ON
63	LX_REQ_M	I	Data receive request from H/U	H : ON, L : OFF
64	NC	O	Not used	
65	V_DOWN	I	Momentary power down detection	H : ON (Power down detection), L : OFF (L fixed)
66	NC	O	Not used	
67	VSS0	-	GND	
68	VD1	-	VDD	
69	X2	-	Main clock input 1	
70	X1	-	Main clock input 2	

KAC-PS811D/X811D

MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	I/O	Function	Processing Operation Description
71	TEST	-	Flash ROM writing	
72	XT2	-	Not used	
73	XT1	-	Not used	
74	VDD0	-	VDD	
75	AVDD	-	VDD	
76	AD-I	I	First current detection (for display)	
77	AD-V	I	BU voltage detection (for display)	
78~80	TEMP1~TEMP3	I	Temperature detection 1~3	

◊ Logic Table

1) Destination

The destination in AMP does not mean the sales regions but specific models.

The following are the models. When reset is released, it is checked only once.

Model name	MODEL1 (29pin)	MODEL2 (30pin)
KAC-PS811D/X811D	Low	Low
KAC-PS521/X521	Low	High
KAC-PS621/X621	High	Low
KAC-PS541/X541	High	High

2) AMP ID

AMP ID is checked only once at the time reset is released or when the microcomputer is released from the low consumption mode.

When set to AMP ID 8/9 no remote control is possible.

AMP ID	DIP-SW1 (25pin)	DIP-SW2 (26pin)	DIP-SW3 (27pin)	DIP-SW4 (28pin)
0	High	High	High	High
1	Low	High	High	High
2	High	Low	High	High
3	Low	Low	High	High
4	High	High	Low	High
5	Low	High	Low	High
6	High	Low	Low	High
7	Low	Low	Low	High
8	High	High	High	Low
9	Low	High	High	Low

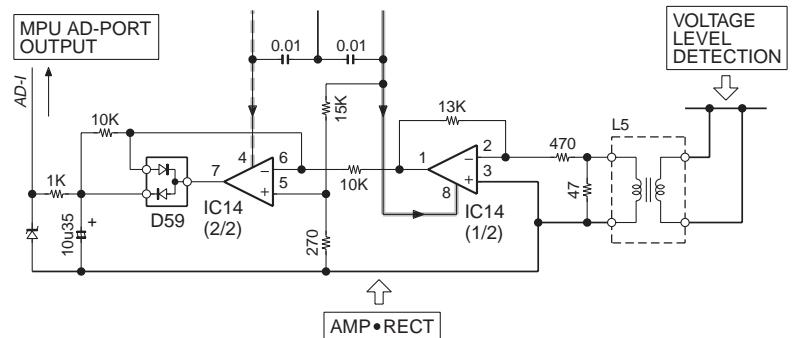
3) Fan speed

Operation	FAN1 (58pin)	FAN2 (59pin)
Stop	Low	High/Low
Low speed	High	High
High speed	High	Low

CIRCUIT DESCRIPTION

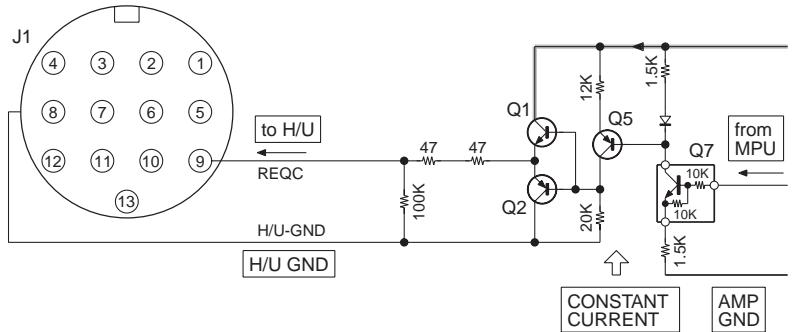
● Current detection circuit

Amplify and rectify potential differences at two points in the primary-side current circuit and send it to the AD-port of the MPU and obtain data for displaying current value.



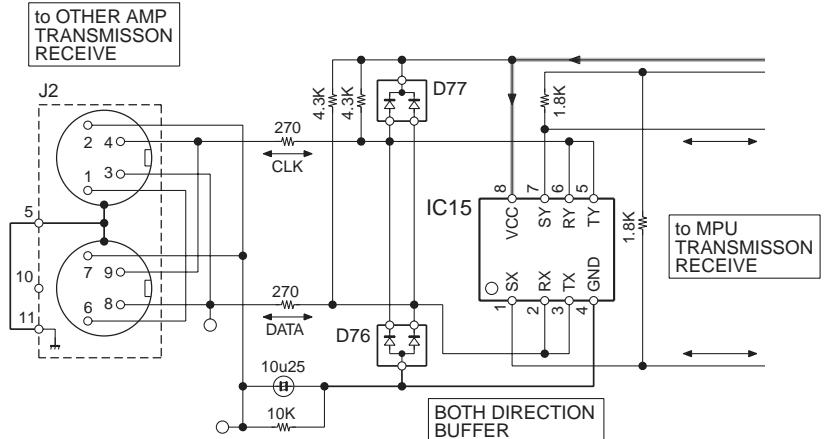
● Constant current output circuit

Remove troubles caused by the potential differences between the constant current output and the GND, so that the GND potential differences between the H/U and the AMP is not overlapped in the AMP to H/U communication.



● I2C buffer

Using an IC for I2C communication, between-AMP communication is conducted so that there will be no trouble from GND potential differences.



A

B

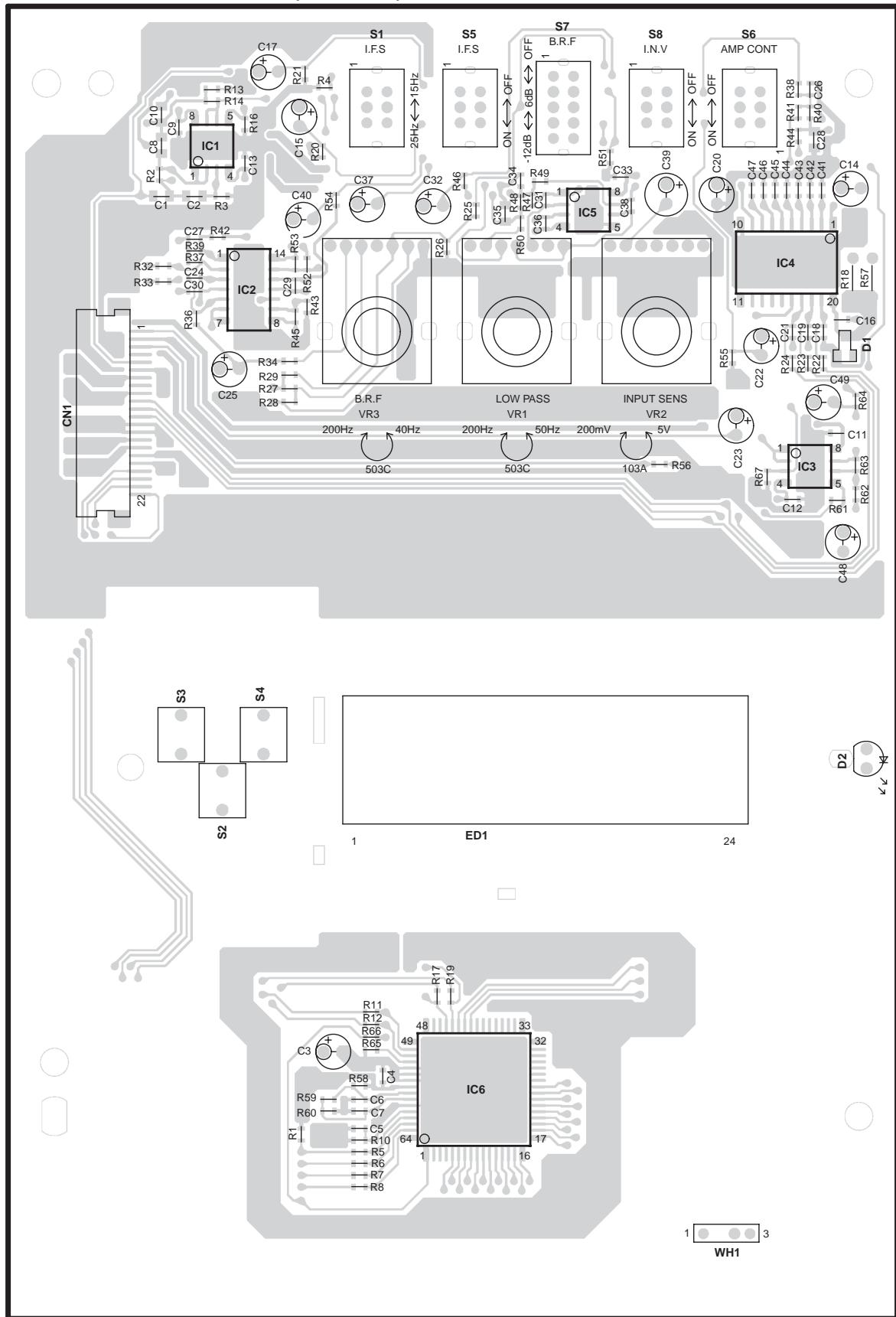
C

D

E

KAC-PS811D/X811D PC BOARD (COMPONENT SIDE VIEW)

PREAMPLIFIER UNIT X08-4170-10 (J76-0012-12)



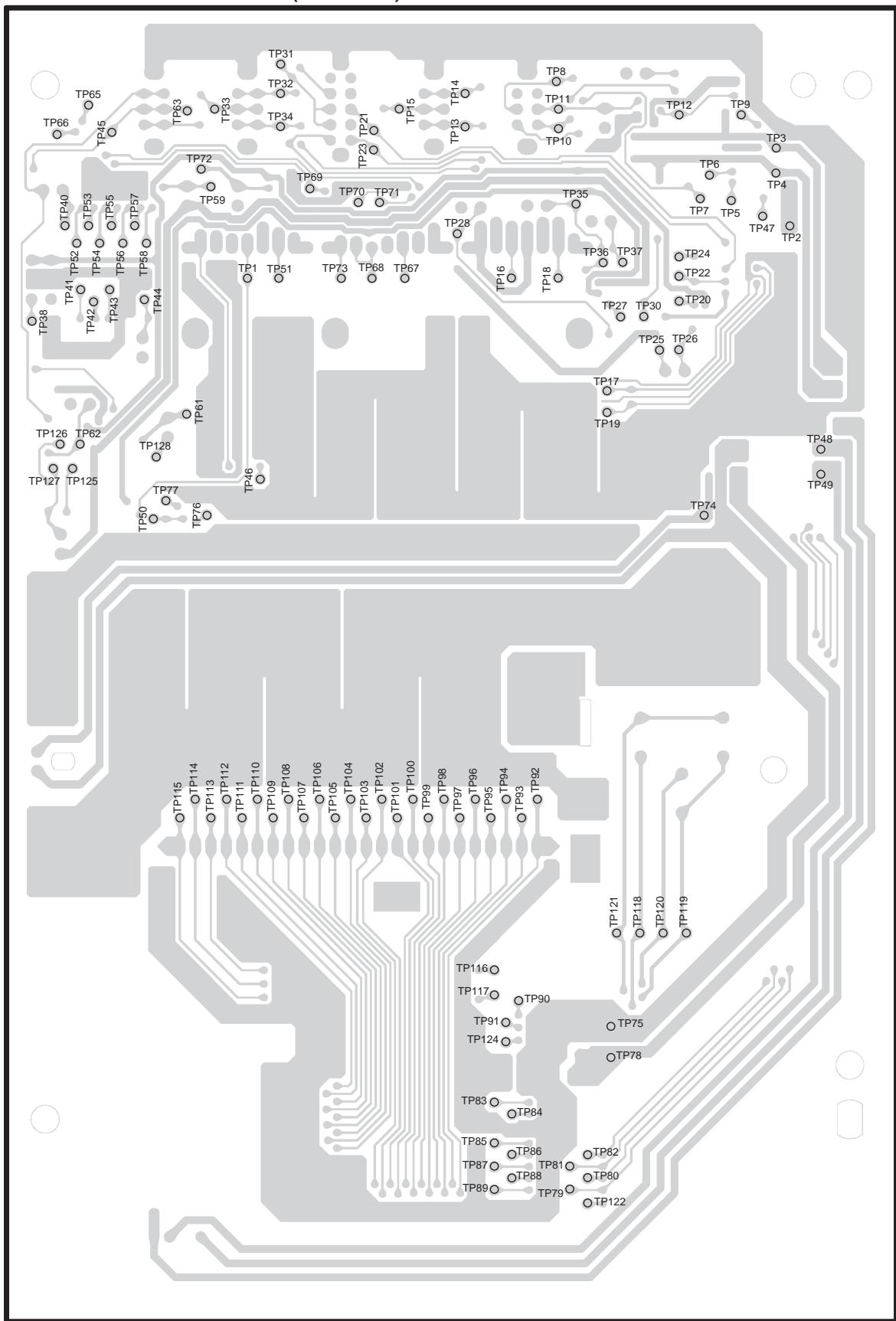
X08-4170-10

Ref. No.	Address
IC1	2B
IC2	3B
IC3	3D
IC4	2D
IC5	2C
IC6	6C

Refer to the schematic diagram for the values of resistors and capacitors.

PC BOARD (FOIL SIDE VIEW)

PREAMPLIFIER UNIT X08-4170-10 (J76-0012-12)

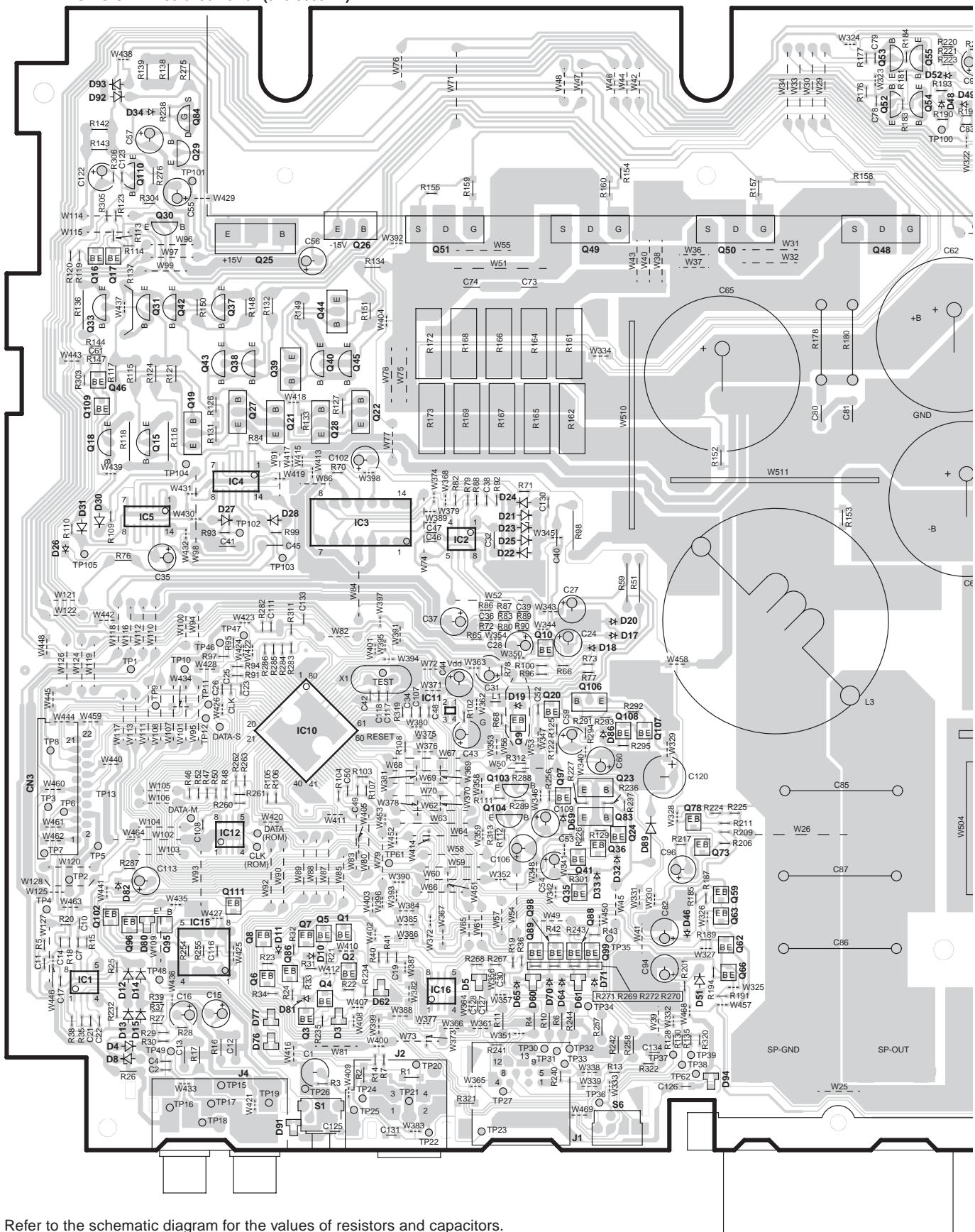


Refer to the schematic diagram for the values of resistors and capacitors.

KAC-PS811D/X811D

PC BOARD (FOIL SIDE VIEW)

AUDIO UNIT X09-5790-10 A/2 (J76-0009-21)



Refer to the schematic diagram for the values of resistors and capacitors.

P

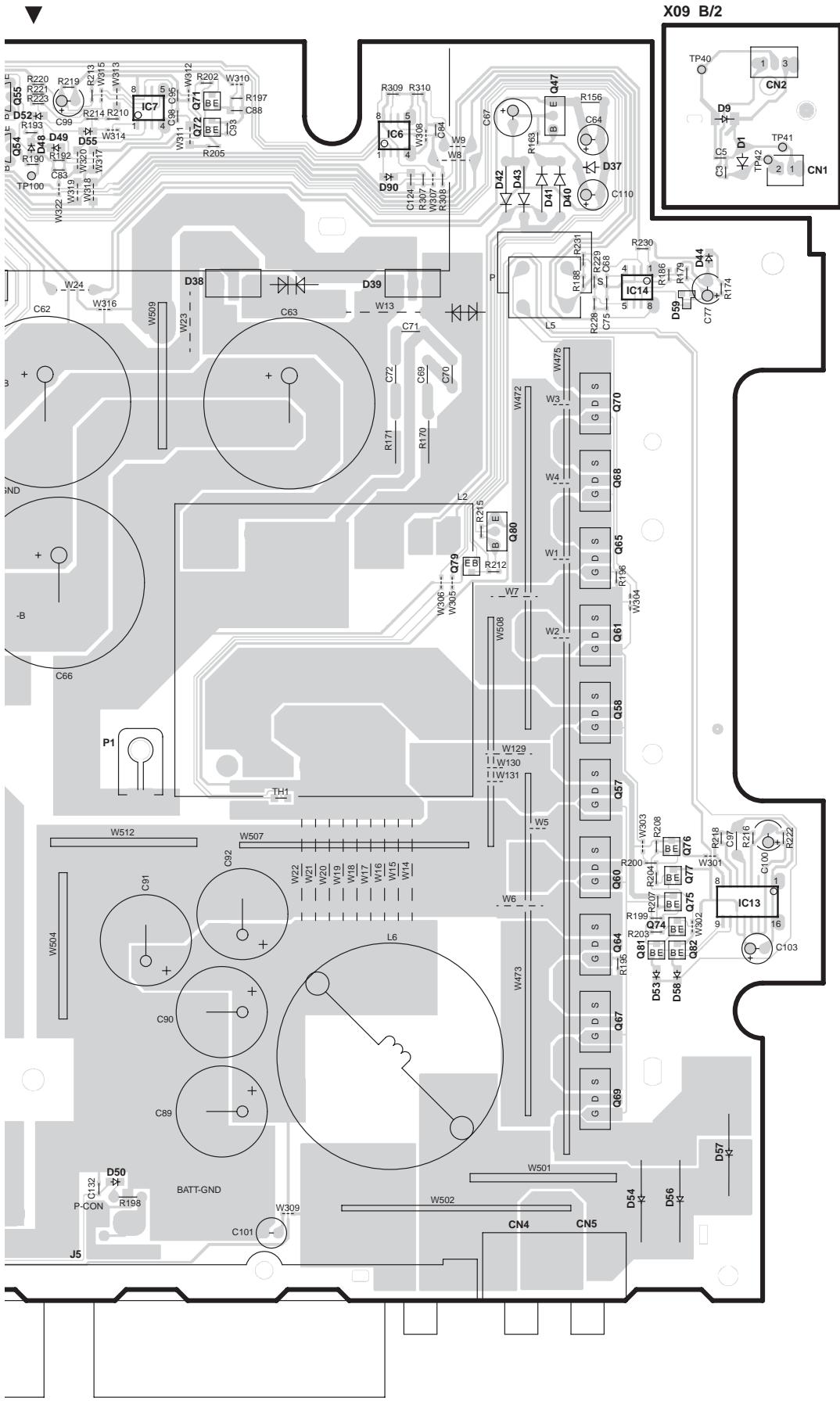
Q

R

S

T

KAC-PS811D/X811D

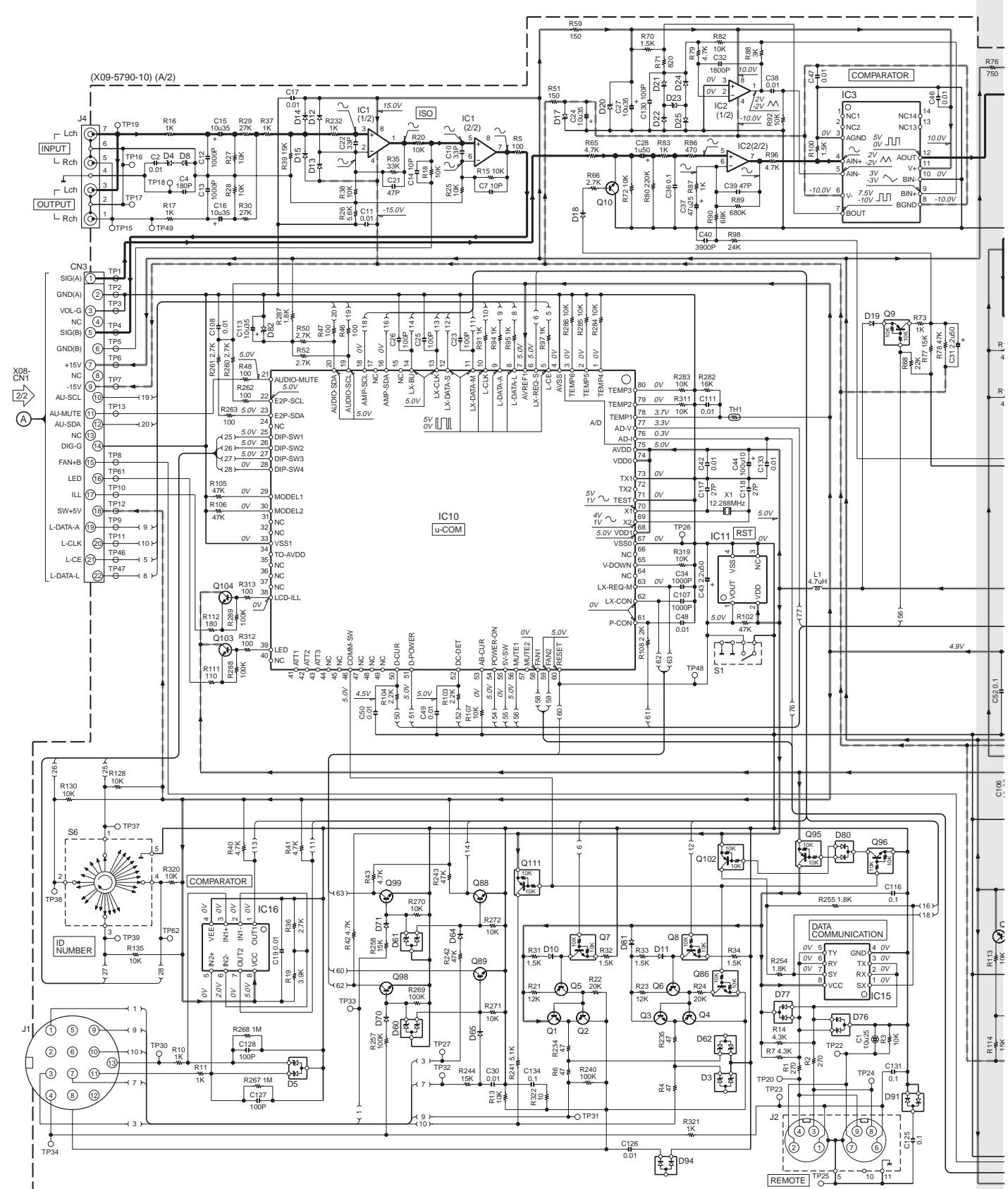


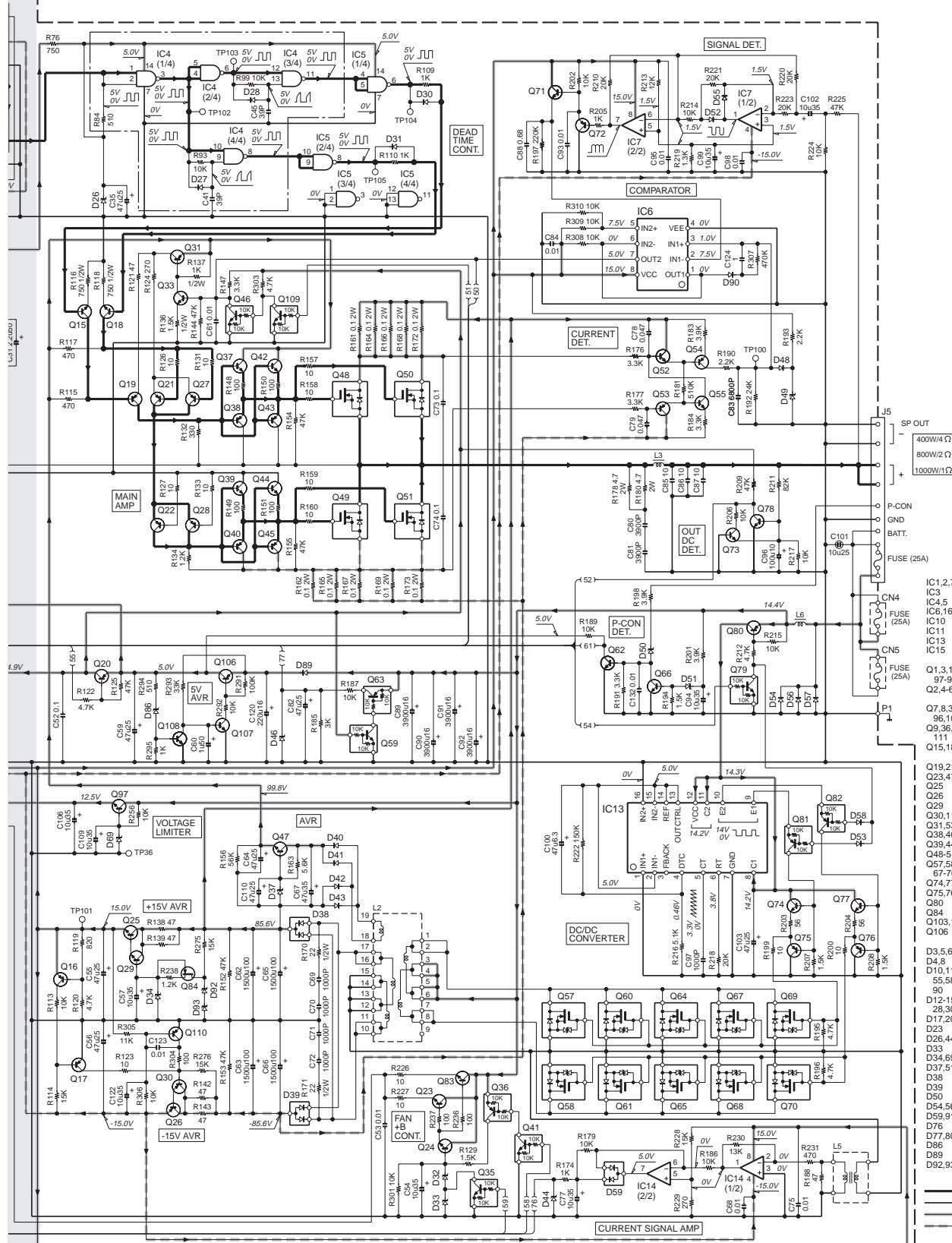
X09 B/2

X09-5790-10

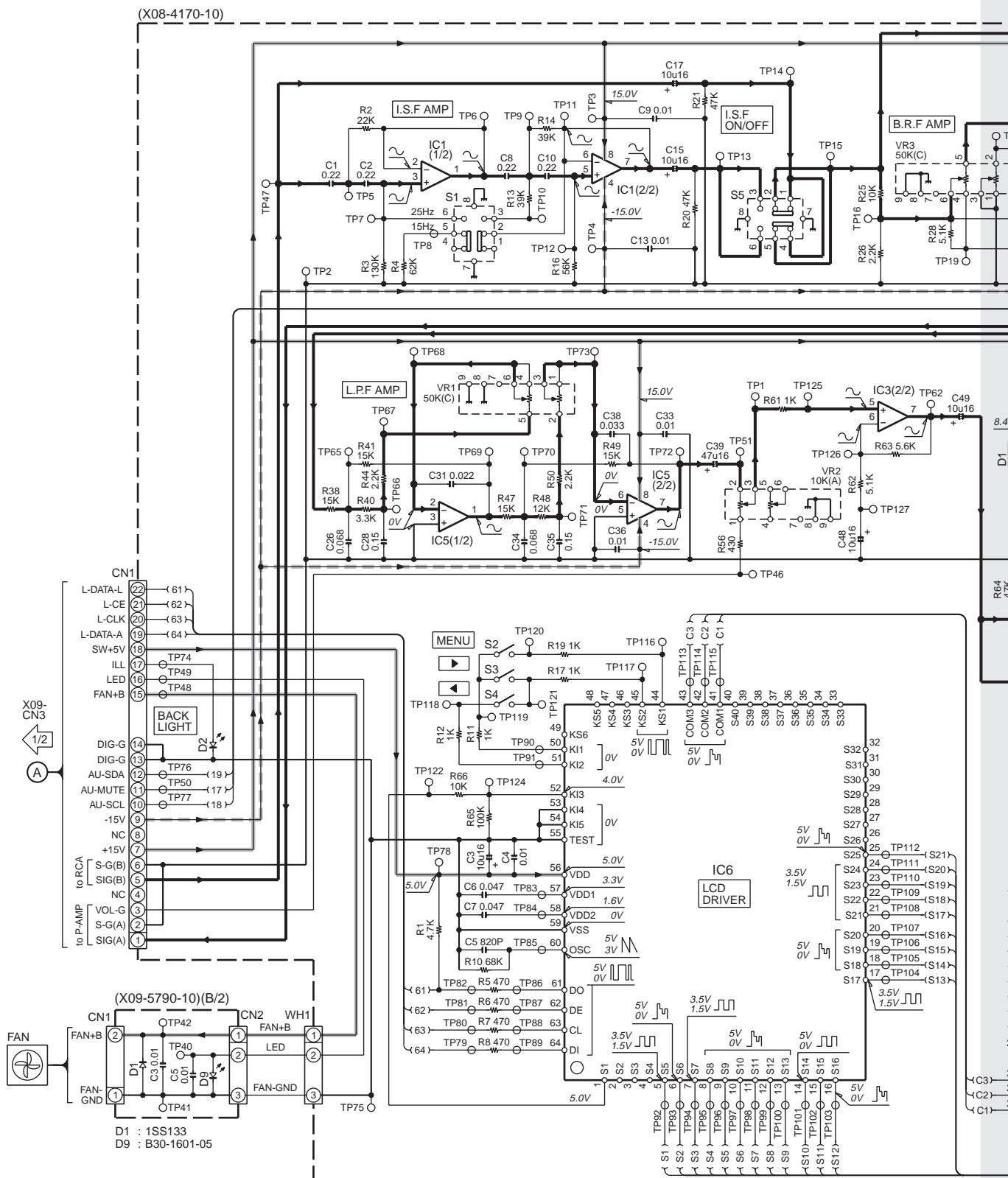
Ref. No.	Address	Ref. No.	Address
IC1	6K	Q48	2O
IC2	4M	Q49	2N
IC3	4M	Q50	2N
IC4	4L	Q51	2M
IC5	4L	Q52	2O
IC6	2Q	Q53	2O
IC7	2P	Q54	2O
IC10	5L	Q55	2O
IC11	5M	Q57	5R
IC13	5S	Q58	4R
IC14	2R	Q59	6N
IC15	6L	Q60	5R
IC16	6M	Q61	4R
Q1	6M	Q62	6N
Q2	6M	Q63	6N
Q3	6L	Q64	5R
Q4	6L	Q65	4R
Q5	6L	Q66	6N
Q6	6L	Q67	6R
Q7	6L	Q68	3R
Q8	6L	Q69	6R
Q9	5M	Q70	3R
Q10	4M	Q71	2P
Q15	3L	Q72	2P
Q16	3K	Q73	5N
Q17	3K	Q74	5R
Q18	3K	Q75	5R
Q19	3L	Q76	5R
Q20	5N	Q77	5R
Q21	3L	Q78	5N
Q22	3M	Q79	4Q
Q23	5N	Q80	3R
Q24	5N	Q81	5R
Q25	3L	Q82	5R
Q26	2M	Q83	5N
Q27	3L	Q84	2L
Q28	3L	Q86	6L
Q29	2L	Q88	6N
Q30	2L	Q89	6M
Q31	3L	Q95	6L
Q33	3K	Q96	6K
Q35	6N	Q97	5N
Q36	5N	Q98	6M
Q37	3L	Q99	6N
Q38	3L	Q102	6K
Q39	3L	Q103	5M
Q40	3L	Q104	5M
Q41	5N	Q106	5N
Q42	3L	Q107	5N
Q43	3L	Q108	5N
Q44	3L	Q109	3K
Q45	3M	Q110	2L
Q46	3K	Q111	6L
Q47	2R		

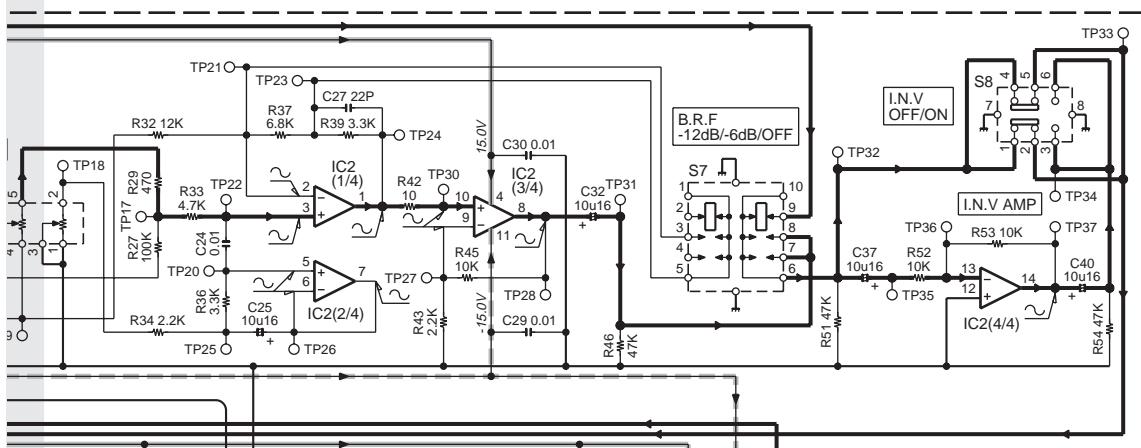
KAC-PS811D/X811D



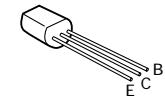


KAC-PS811D/X811D





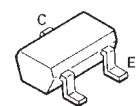
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2SA992
2SC1845
2SC945(A)



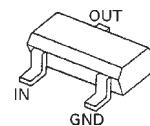
2SA1576A



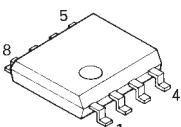
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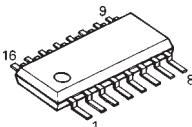
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DTC114EUA



NJM4565MD-ZB



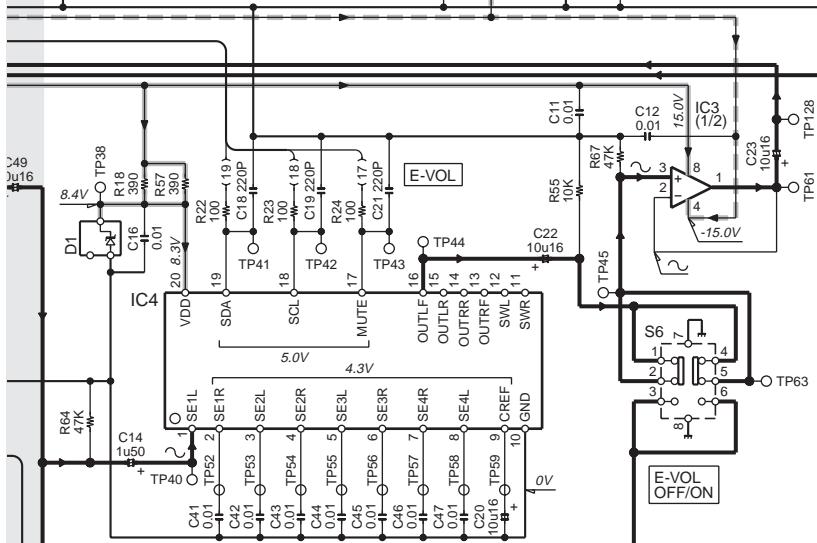
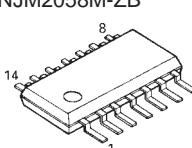
UPC494GS



DA204U



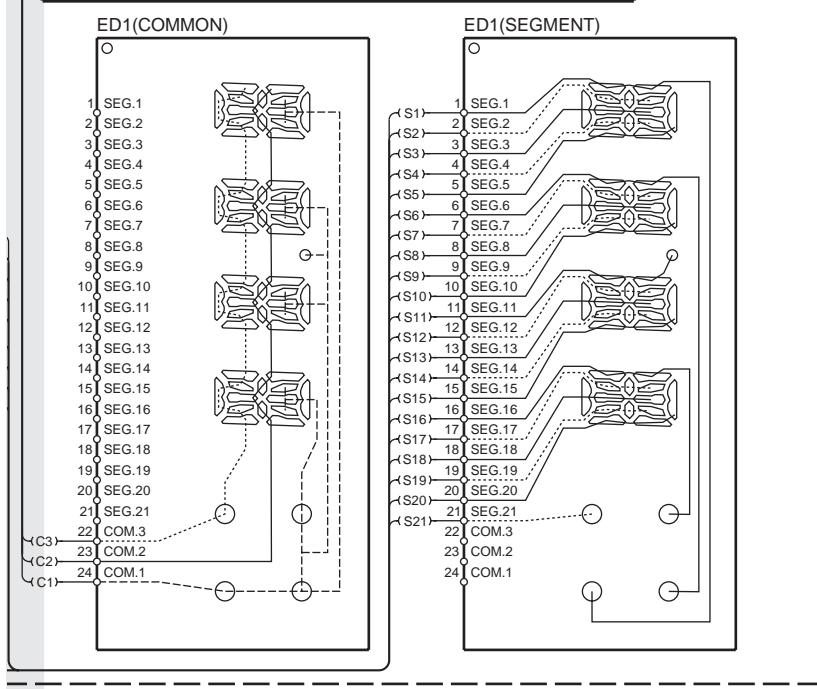
2SK246



IC1,3,5
IC2 : NJM4565MD-ZB
IC4 : E-TDA7409DTR
IC6 : LC75853NE-E

D1 : MA3082-M
D2 : B30-1694-05

SIGNAL LINE
GND LINE
+B LINE
-B LINE



KAC-PS811D/X811X (2/2)

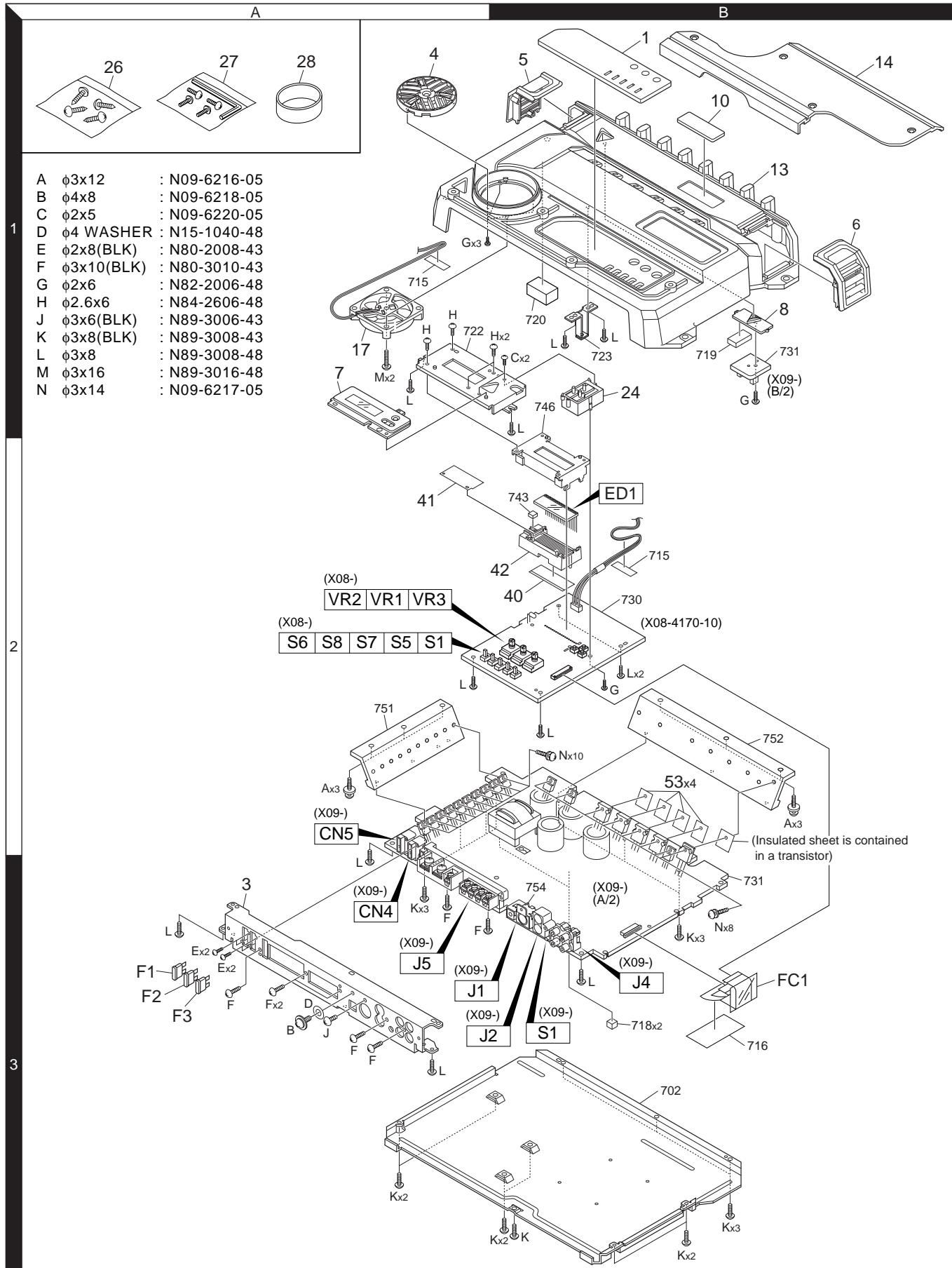
CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).

△ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

KAC-PS811D/X811D

EXPLODED VIEW



PARTS LIST

* New parts

Parts without **Parts No.** are not supplied.Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.Teile ohne **Parts No.** werden nicht geliefert.

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation	Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
KAC-PS811D/X811D											
1	1B	*	A21-4335-02	DRESSING PANEL	KM1	C1,2			CK73FB1C224K	CHIP C	0.22UF K
1	1B	*	A21-4336-02	DRESSING PANEL	E1	C3			CD04AS1C100M	ELECTRO	10UF 16WV
3	3A	*	A64-3296-02	PANEL SMALL-MONO		C4			CK73GB1H103K	CHIP C	0.010UF K
4	1A	*	B07-3102-03	ESCUTCHEON	MAIN-FAN	C5			CK73GB1H821K	CHIP C	820PF K
5	1B	*	B07-3103-02	ESCUTCHEON	SIDE-FAN-L	C6,7			CK73GB1H473K	CHIP C	0.047UF K
6	1B	*	B07-3104-02	ESCUTCHEON	SIDE-FAN-R	C8			CK73FB1C224K	CHIP C	0.22UF K
7	1A	*	B10-4544-03	FRONT GLASS	LCD	C9			CK73GB1H103K	CHIP C	0.010UF K
8	1B	*	B19-2257-03	LIGHTING BOARD		C10			CK73FB1C224K	CHIP C	0.22UF K
10	1B	*	B43-1521-04	BADGE	KM1	C11-13			CK73GB1H103K	CHIP C	0.010UF K
10	1B	*	B43-1522-04	BADGE	E1	C14			CD04AS1H010M	ELECTRO	1UF 50WV
-			B46-0100-50	WARRANTY CARD		C15			CD04AS1C100M	ELECTRO	10UF 16WV
-			B46-0648-13	USER CARD	K	C16			CK73GB1H103K	CHIP C	0.010UF K
-		*	B64-2792-00	INSTRUCT.MANUAL (ENG.FRE.SPA.)	KE1	C17			CD04AS1C100M	ELECTRO	10UF 16WV
-		*	B64-2793-00	INST.MANUAL (GER.DUT.ITA.POR.)	E1	C18,19			CC73GCH1H221J	CHIP C	220PF J
-		*	B64-2794-00	INSTRUCTION MANUAL (ENG.T.CHI.)	M1	C20			CD04AS1C100M	ELECTRO	10UF 16WV
FC1	3B	*	E39-0642-05	FLAT CABLE		C21			CC73GCH1H221J	CHIP C	220PF J
						C22,23			CD04AS1C100M	ELECTRO	10UF 16WV
						C24			CK73GB1H103K	CHIP C	0.010UF K
						C25			CD04AS1C100M	ELECTRO	10UF 16WV
						C26			CK73GB1H683K	CHIP C	0.068UF K
△ F1-3	1B	*	F01-1751-01	HEAT SINK		C27			CC73GCH1H220J	CHIP C	22PF J
			F07-1136-12	COVER	KM1	C28			CK73FB1E154K	CHIP C	0.15UF K
		*	F07-1137-12	COVER	E1	C29,30			CK73GB1H103K	CHIP C	0.010UF K
		*	F09-1885-05	FAN (60X60X11.5)		C31			CK73GB1H223K	CHIP C	0.022UF K
		3A	F52-0014-05	FUSE (BLADE TYPE) 25A		C32			CD04AS1C100M	ELECTRO	10UF 16WV
		*	H10-4894-13	POLYSTYRENE FOAMED FIXTURE		C33			CC73GB1H103K	CHIP C	0.010UF K
		*	H13-2055-04	CARTON BOARD		C34			CK73GB1H683K	CHIP C	0.068UF K
		*	H25-1199-04	PROTECTION BAG		C35			CK73FB1E154K	CHIP C	0.15UF K
		*	H25-1200-04	PROTECTION BAG (250X350X0.03)		C36			CK73GB1H103K	CHIP C	0.010UF K
		*	H54-3128-03	ITEM CARTON CASE	K	C37			CD04AS1C100M	ELECTRO	10UF 16WV
		*	H54-3129-03	ITEM CARTON CASE	E1	C38			CK73GB1C333K	CHIP C	0.033UF K
		*	H54-3130-03	ITEM CARTON CASE	M1	C39			CD04AS1C470M	ELECTRO	47UF 16WV
24	1B	*	K24-4146-03	KNOB (VR CAP)		C40			CD04AS1C100M	ELECTRO	10UF 16WV
						C41-47			CK73GB1H103K	CHIP C	0.010UF K
						C48,49			CD04AS1C100M	ELECTRO	10UF 16WV
26	1A		N99-1577-15	SCREW SET		CN1			CC73GCH1H220J	CHIP C	22PF J
27	1A	*	N99-1752-05	SCREW SET		WH1	*		CK73FB1E154K	CHIP C	0.15UF K
A	2A	*	N09-6216-05	TAPITITE SCREW (3X13)			*		CK73GB1H103K	CHIP C	0.010UF K
B	3A	*	N09-6218-05	TAPITITE SCREW (4X8)			*		CK73GB1H223K	CHIP C	0.022UF K
C	2B	*	N09-6220-05	TAPITITE SCREW (2X5)			*		CD04AS1C100M	ELECTRO	10UF 16WV
D	3A	*	N15-1040-48	FLAT WASHER (4)		R1			CC73GB1H683K	CHIP C	0.010UF K
E	3A	*	N80-2008-43	PAN HEAD TAPITITE SCREW		R2			CK73GB2A472J	CHIP R	4.7K J 1/10W
F	3A	*	N80-3010-43	PAN HEAD TAPITITE SCREW		R3			CK73GB2A223J	CHIP R	22K J 1/10W
G	1A	*	N82-2006-48	BINDING HEAD TAPITITE SCREW		R4			CK73GB2A134J	CHIP R	130K J 1/10W
H	2A	*	N84-2606-48	PAN HEAD TAPITITE SCREW		R5-8			CK73GB2A623J	CHIP R	62K J 1/10W
J	3A	*	N89-3006-43	BINDING HEAD TAPITITE SCREW		R10			CK73GB2A471J	CHIP R	470 J 1/10W
K	3B	*	N89-3008-43	BINDING HEAD TAPITITE SCREW		R11,12			RK73GB2A472J	CHIP R	68K J 1/10W
L	2B	*	N89-3008-48	BINDING HEAD TAPITITE SCREW		R13,14			RK73GB2A102J	CHIP R	1.0K J 1/10W
M	2A	*	N89-3016-48	BINDING HEAD TAPITITE SCREW		R16			RK73GB2A393J	CHIP R	39K J 1/10W
28	1A		W01-1606-05	ACCESSORY		R17			RK73GB2A563J	CHIP R	56K J 1/10W
									RK73GB2A102J	CHIP R	1.0K J 1/10W
									RK73GB2A683J	CHIP R	68K J 1/10W
									RK73GB2A102J	CHIP R	1.0K J 1/10W
									RK73GB2A473J	CHIP R	47K J 1/10W
									RK73GB2A101J	CHIP R	100 J 1/10W
									RK73GB2A103J	CHIP R	10K J 1/10W
									RK73GB2A222J	CHIP R	2.2K J 1/10W
									RK73GB2A104J	CHIP R	100K J 1/10W
PREAMPLIFIER UNIT (X08-4170-10)											
40	2B	*	B11-1446-04	REFLECTION SHEET		R18			RD14BB2C391J	RD	390 J 1/6W
41	2A	*	B11-1447-04	OPTICAL DIFFUSER		R19			RK73GB2A102J	CHIP R	1.0K J 1/10W
42	2B	*	B19-2258-12	LIGHTING BOARD		R20,21			RK73GB2A473J	CHIP R	47K J 1/10W
D2		*	B30-1694-05	LED		R22-24			RK73GB2A101J	CHIP R	100 J 1/10W
ED1		*	B38-1150-05	LCD DISPLAY ASSY		R25			RK73GB2A103J	CHIP R	10K J 1/10W

E1 : KAC-PS811D K : KAC-X811D M1 : KAC-X811D
(E : Europe K : North America M : Other Areas)

△ Indicates safety critical components.

KAC-PS811D/X811D

PARTS LIST

* New parts

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PREAMPLIFIER UNIT (X08-4170-10)

Ref. No.	A d d	N e w	Parts No.	Description			Desti- nation
R28			RK73GB2A512J	CHIP R	5.1K	J	1/10W
R29			RK73GB2A471J	CHIP R	470	J	1/10W
R32			RK73GB2A123J	CHIP R	12K	J	1/10W
R33			RK73GB2A472J	CHIP R	4.7K	J	1/10W
R34			RK73GB2A222J	CHIP R	2.2K	J	1/10W
R36			RK73GB2A332J	CHIP R	3.3K	J	1/10W
R37			RK73GB2A682J	CHIP R	6.8K	J	1/10W
R38			RK73GB2A153J	CHIP R	15K	J	1/10W
R39,40			RK73GB2A332J	CHIP R	3.3K	J	1/10W
R41			RK73GB2A153J	CHIP R	15K	J	1/10W
R42			RK73GB2A100J	CHIP R	10	J	1/10W
R43,44			RK73GB2A222J	CHIP R	2.2K	J	1/10W
R45			RK73GB2A103J	CHIP R	10K	J	1/10W
R46			RK73GB2A473J	CHIP R	47K	J	1/10W
R47			RK73GB2A153J	CHIP R	15K	J	1/10W
R48			RK73GB2A123J	CHIP R	12K	J	1/10W
R49			RK73GB2A153J	CHIP R	15K	J	1/10W
R50			RK73GB2A222J	CHIP R	2.2K	J	1/10W
R51			RK73GB2A473J	CHIP R	47K	J	1/10W
R52,53			RK73GB2A103J	CHIP R	10K	J	1/10W
R54			RK73GB2A473J	CHIP R	47K	J	1/10W
R55			RK73GB2A103J	CHIP R	10K	J	1/10W
R56			RK73GB2A431J	CHIP R	430	J	1/10W
R57			RD14BB2C391J	RD	390	J	1/6W
R58-60			RK73GB2A103J	CHIP R	10K	J	1/10W
R61			RK73GB2A102J	CHIP R	1.0K	J	1/10W
R62			RK73GB2A512J	CHIP R	5.1K	J	1/10W
R63			RK73GB2A562J	CHIP R	5.6K	J	1/10W
R64			RK73GB2A473J	CHIP R	47K	J	1/10W
R65			RK73GB2A104J	CHIP R	100K	J	1/10W
R66			RK73GB2A103J	CHIP R	10K	J	1/10W
R67			RK73GB2A473J	CHIP R	47K	J	1/10W
VR1	*		R31-0225-05	VARIABLE RESISTOR	50K (C)	X2	
VR2	*		R31-0238-05	VARIABLE RESISTOR			
VR3	*		R31-0225-05	VARIABLE RESISTOR	50K (C)	X2	
S1	*		S62-0873-05	SLIDE SWITCH			
S2-4	*		S70-0922-05	TACT SWITCH			
S5,6	*		S62-0873-05	SLIDE SWITCH			
S7	*		S62-0874-05	SLIDE SWITCH			
S8	*		S62-0873-05	SLIDE SWITCH			
D1			MA3082-M	ZENER DIODE			
IC1	*		NJM4565MD-ZB	ANALOGUE IC			
IC2	*		NJM2058M-ZB	ANALOGUE IC			
IC3	*		NJM4565MD-ZB	ANALOGUE IC			
IC4	*		E-TDA7409DTR	ANALOGUE IC			
IC5	*		NJM4565MD-ZB	ANALOGUE IC			
IC6	*		LC75853NE-E	MOS-IC (1/3DUTY)			

AUDIO UNIT (X09-5790-10)

C1	*	C90-5557-05	ELECTRO	10UF	25WV		
C2,3		CK73GB1H103K	CHIP C	0.010UF	K		
C4		CC73GCH1H181J	CHIP C	180PF	J		
C5		CK73GB1H103K	CHIP C	0.010UF	K		
C7		CC73GCH1H100D	CHIP C	10PF	D		
C10		CC73GCH1H330J	CHIP C	33PF	J		

Ref. No.	A d d	N e w	Parts No.	Description			Desti- nation
C11			CK73GB1H103K	CHIP C	0.010UF	K	
C12,13			CF92FV1H102J	MF-C	1000PF	J	
C14			CC73GCH1H100D	CHIP C	10PF	D	
C15,16	*		C90-5592-05	ELECTRO	10UF	35WV	
C17			CK73GB1H103K	CHIP C	0.010UF	K	
C19			CK73GB1H103K	CHIP C	0.010UF	K	
C21			CC73GCH1H470J	CHIP C	47PF	J	
C22			CC73GCH1H330J	CHIP C	33PF	J	
C23			CC73GCH1H101J	CHIP C	100PF	J	
C24	*		C90-5592-05	ELECTRO	10UF	35WV	
C25,26			CC73GCH1H101J	CHIP C	100PF	J	
C27	*		C90-5592-05	ELECTRO	10UF	35WV	
C28			C90-5601-05	ELECTRO	1UF	50WV	
C30			CK73GB1H103K	CHIP C	0.010UF	K	
C31			C90-5602-05	ELECTRO	2.2UF	50WV	
C32			CF92FV1H182J	MF-C	1800PF	J	
C34			CK73GB1H102K	CHIP C	1000PF	K	
C35	*		C90-5588-05	ELECTRO	47UF	25WV	
C36			CK73GB1H104K	CHIP C	0.10UF	K	
C37	*		C90-5588-05	ELECTRO	47UF	25WV	
C38			CK73GB1H103K	CHIP C	0.010UF	K	
C39			CC73GCH1H470J	CHIP C	47PF	J	
C40			CF92FV1H392J	MF-C	3900PF	J	
C41			CC45FC1H390J	CERAMIC	39PF	J	
C42			CK73GB1H103K	CHIP C	0.010UF	K	
C43			C90-5602-05	ELECTRO	2.2UF	50WV	
C44			C90-5572-05	ELECTRO	100UF	10WV	
C45			CC45FC1H390J	CERAMIC	39PF	J	
C46-50			CK73GB1H103K	CHIP C	0.010UF	K	
C52			CK73GB1H104K	CHIP C	0.10UF	K	
C53			CK73GB1H103K	CHIP C	0.010UF	K	
C54	*		C90-5592-05	ELECTRO	10UF	35WV	
C55,56	*		C90-5588-05	ELECTRO	47UF	25WV	
C57	*		C90-5592-05	ELECTRO	10UF	35WV	
C59	*		C90-5588-05	ELECTRO	47UF	25WV	
C60			C90-5601-05	ELECTRO	1UF	50WV	
C61			CK73GB1H103K	CHIP C	0.010UF	K	
C62,63	*		C90-5688-05	ELECTRO	1500UF	100WV	
C64	*		C90-5588-05	ELECTRO	47UF	25WV	
C65,66	*		C90-5688-05	ELECTRO	1500UF	100WV	
C67	*		C90-5594-05	ELECTRO	47UF	35WV	
C68			CK73GB1H103K	CHIP C	0.010UF	K	
C69-72			CK45FB1H102K	CERAMIC	1000PF	K	
C73,74			CF92FV2A104J	MF-C	0.10UF	J	
C75			CK73GB1H103K	CHIP C	0.010UF	K	
C77			C90-5592-05	ELECTRO	10UF	35WV	
C78,79			CK73GB1E473K	CHIP C	0.047UF	K	
C80,81			CF92FV1H392J	MF-C	3900PF	J	
C82	*		C90-5588-05	ELECTRO	47UF	25WV	
C83			CK73GB1H682K	CHIP C	6800PF	K	
C84			CK73GB1H103K	CHIP C	0.010UF	K	
C85-87			C91-2267-05	MP-F	10UF	J	
C88			CK73FB1C684K	CHIP C	0.68UF	K	
C89-92	*		CD04BC1C392M	ELECTRO	3900UF	16WV	
C93			CK73GB1H103K	CHIP C	0.010UF	K	

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PARTS LIST

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AUDIO UNIT (X09-5790-10)

Ref. No.	A d d	N e w	Parts No.	Description			Desti- nation	Ref. No.	A d d	N e w	Parts No.	Description			Desti- nation
C94		*	C90-5592-05	ELECTRO	10UF	35WV		R6			RD14BB2C470J	RD	47	J	1/6W
C95			CK73GB1H103K	CHIP C	0.010UF	K		R7			RK73GB2A432J	CHIP R	4.3K	J	1/10W
C96			C90-5572-05	ELECTRO	100UF	10WV		R10,11			RD14BB2C102J	RD	1.0K	J	1/6W
C97			CF92FV1H102J	MF-C	1000PF	J		R13			RK73GB2A103J	CHIP R	10K	J	1/10W
C98			CK73GB1H103K	CHIP C	0.010UF	K		R14			RK73GB2A432J	CHIP R	4.3K	J	1/10W
C99		*	C90-5592-05	ELECTRO	10UF	35WV		R15			RN73GH1J103D	CHIP R	10K	D	1/16W
C100			C90-5565-05	ELECTRO	47UF	6.3WV		R16,17			RD14BB2C102J	RD	1.0K	J	1/6W
C101		*	C90-5557-05	ELECTRO	10UF	25WV		R18			RN73GH1J103D	CHIP R	10K	D	1/16W
C102		*	C90-5592-05	ELECTRO	10UF	35WV		R19			RK73GB2A392J	CHIP R	3.9K	J	1/10W
C103		*	C90-5588-05	ELECTRO	47UF	25WV		R20			RN73GH1J103D	CHIP R	10K	D	1/16W
C106		*	C90-5592-05	ELECTRO	10UF	35WV		R21			RK73GB2A123J	CHIP R	12K	J	1/10W
C107			CK73GB1H102K	CHIP C	1000PF	K		R22			RK73GB2A203J	CHIP R	20K	J	1/10W
C108			CK73GB1H103K	CHIP C	0.010UF	K		R23			RK73GB2A123J	CHIP R	12K	J	1/10W
C109		*	C90-5592-05	ELECTRO	10UF	35WV		R24			RK73GB2A203J	CHIP R	20K	J	1/10W
C110		*	C90-5588-05	ELECTRO	47UF	25WV		R25			RN73GH1J103D	CHIP R	10K	D	1/16W
C111			CK73GB1H103K	CHIP C	0.010UF	K		R26			RD14BB2C562J	RD	5.6K	J	1/6W
C113		*	C90-5592-05	ELECTRO	10UF	35WV		R27,28			RK73GB2A103J	CHIP R	10K	J	1/10W
C116			CK73GB1H104K	CHIP C	0.10UF	K		R29,30			RK73GB2A273J	CHIP R	27K	J	1/10W
C117,118			CC73GCH1H270J	CHIP C	27PF	J		R31-34			RK73GB2A152J	CHIP R	1.5K	J	1/10W
C120		*	C90-5590-05	ELECTRO	220UF	25WV		R35			RK73GB2A333J	CHIP R	33K	J	1/10W
C122		*	C90-5592-05	ELECTRO	10UF	35WV		R36			RK73GB2A272J	CHIP R	2.7K	J	1/10W
C123			CK73GB1H103K	CHIP C	0.010UF	K		R37			RK73GB2A102J	CHIP R	1.0K	J	1/10W
C124			CK73FB1C105K	CHIP C	1.0UF	K		R38			RK73GB2A103J	CHIP R	10K	J	1/10W
C125,126			CK73FB1H104K	CHIP C	0.10UF	K		R39			RK73GB2A153J	CHIP R	15K	J	1/10W
C127,128			CC73GCH1H101J	CHIP C	100PF	J		R40-43			RK73GB2A472J	CHIP R	4.7K	J	1/10W
C130			CC73GCH1H101J	CHIP C	100PF	J		R46-48			RK73GB2A101J	CHIP R	100	J	1/10W
C131			CK73FB1H104K	CHIP C	0.10UF	K		R50			RK73GB2A272J	CHIP R	2.7K	J	1/10W
C132,133			CK73GB1H103K	CHIP C	0.010UF	K		R51			RD14BB2E151J	RD	150	J	1/4W
C134			CK73FB1H104K	CHIP C	0.10UF	K		R52			RK73GB2A272J	CHIP R	2.7K	J	1/10W
CN1			E41-0927-05	PIN ASSY (2P)				R59			RD14BB2E151J	RD	150	J	1/4W
CN2			E41-0928-05	PIN ASSY (3P)				R65			RK73GB2A472J	CHIP R	4.7K	J	1/10W
CN3		*	E41-2202-05	FLAT CABLE CONNECTOR (22P)				R66			RK73GB2A272J	CHIP R	2.7K	J	1/10W
J1		*	E56-0856-05	CYLINDRICAL RECEPTACLE (13P)				R68			RK73GB2A223J	CHIP R	22K	J	1/10W
J2		*	E56-0853-05	CYLINDRICAL RECEPTACLE (M-D4P)				R70			RK73GB2A152J	CHIP R	1.5K	J	1/10W
J4		*	E63-0901-05	PIN JACK (4P)				R71			RK73GB2A821J	CHIP R	820	J	1/10W
J5			E70-0838-05	SCREW TERMINAL BOARD (7P)				R72			RK73GB2A103J	CHIP R	10K	J	1/10W
53	2B		F20-2205-14	INSULATING SHEET				R73			RK73GB2A102J	CHIP R	1.0K	J	1/10W
△ CN4,5			J13-0602-05	FUSE HOLDER				R76			RD14BB2C751J	RD	750	J	1/6W
L1		*	L41-4795-33	SMALL FIXED INDUCTOR 4.7U				R77			RK73GB2A153J	CHIP R	15K	J	1/10W
L2		*	L19-0756-05	TRANSFORMER FOR CONVERTER				R78			RK73GB2A473J	CHIP R	47K	J	1/10W
L3		*	L33-1973-05	CHOKE COIL 50UH				R79			RK73GB2A472J	CHIP R	4.7K	J	1/10W
L5		*	L19-0758-05	TRANSFORMER FOR CONVERTER				R80			RK73GB2A224J	CHIP R	220K	J	1/10W
L6		*	L33-1972-05	CHOKE COIL 25UH				R82			RK73GB2A103J	CHIP R	10K	J	1/10W
X1			L77-2844-05	CRYSTAL RESONATOR 12.288MHZ				R83			RK73GB2A102J	CHIP R	1.0K	J	1/10W
F	3A		N80-3010-43	PAN HEAD TAPTITE SCREW				R84			RK73GB2A511J	CHIP R	510	J	1/10W
K	3B	*	N89-3008-43	BINDING HEAD TAPTITE SCREW				R86			RK73GB2A471J	CHIP R	470	J	1/10W
N	2B	*	N09-6217-05	TAPTITE SCREW				R87			RK73GB2A102J	CHIP R	1.0K	J	1/10W
R1,2			RK73EB2E271J	CHIP R	270	J	1/4W	R88			RK73GB2A302J	CHIP R	3.0K	J	1/10W
R3			RK73GB2A103J	CHIP R	10K	J	1/10W	R89			RK73GB2A684J	CHIP R	680K	J	1/10W
R4			RD14BB2C470J	RD	47	J	1/6W	R90			RK73GB2A683J	CHIP R	68K	J	1/10W
R5			RK73GB2A101J	CHIP R	100	J	1/10W	R91			RK73GB2A102J	CHIP R	1.0K	J	1/10W
R92,93								R92,93			RK73GB2A103J	CHIP R	10K	J	1/10W
R94,95								R94,95			RK73GB2A102J	CHIP R	1.0K	J	1/10W
R96								R96			RK73GB2A472J	CHIP R	4.7K	J	1/10W
R97								R97			RK73GB2A102J	CHIP R	1.0K	J	1/10W

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(E : Europe K : North America M : Other Areas)

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KAC-PS811D/X811D

PARTS LIST

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AUDIO UNIT (X09-5790-10)

Ref. No.	A d d	N e w	Parts No.	Description			Desti- nation	Ref. No.	A d d	N e w	Parts No.	Description			Desti- nation
R98			RD14BB2E243J	RD	24K	J	1/4W	R183			RK73GB2A392J	CHIP R	3.9K	J	1/10W
R99			RK73GB2A103J	CHIP R	10K	J	1/10W	R184			RK73GB2A332J	CHIP R	3.3K	J	1/10W
R100			RK73GB2A152J	CHIP R	1.5K	J	1/10W	R185			RK73GB2A302J	CHIP R	3.0K	J	1/10W
R102			RK73GB2A473J	CHIP R	47K	J	1/10W	R186,187			RK73GB2A103J	CHIP R	10K	J	1/10W
R103,104			RK73GB2A222J	CHIP R	2.2K	J	1/10W	R188			RK73GB2A470J	CHIP R	47	J	1/10W
R105,106			RK73GB2A473J	CHIP R	47K	J	1/10W	R189			RK73GB2A103J	CHIP R	10K	J	1/10W
R107			RK73GB2A103J	CHIP R	10K	J	1/10W	R190			RK73GB2A222J	CHIP R	2.2K	J	1/10W
R108			RK73GB2A222J	CHIP R	2.2K	J	1/10W	R191			RK73GB2A332J	CHIP R	3.3K	J	1/10W
R109,110		*	RK73GB2A102J	CHIP R	1.0K	J	1/10W	R192			RK73GB2A243J	CHIP R	24K	J	1/10W
R111	*		RK73GB2A111J	CHIP R	110	J	1/10W	R193			RK73GB2A222J	CHIP R	2.2K	J	1/10W
R112			RK73GB2A181J	CHIP R	180	J	1/10W	R194			RK73GB2A152J	CHIP R	1.5K	J	1/10W
R113			RK73GB2A103J	CHIP R	10K	J	1/10W	R195,196			RK73GB2A472J	CHIP R	4.7K	J	1/10W
R114			RK73GB2A153J	CHIP R	15K	J	1/10W	R197			RK73GB2A224J	CHIP R	220K	J	1/10W
R115			RD14NB2E471J	RD	470	J	1/4W	R198			RD14BB2C392J	RD	3.9K	J	1/6W
R116			RD14DB2H751J	SMALL-RD	750	J	1/2W	R199,200			RK73GB2A100J	CHIP R	10	J	1/10W
R117			RD14NB2E471J	RD	470	J	1/4W	R201			RK73GB2A392J	CHIP R	3.9K	J	1/10W
R118			RD14DB2H751J	SMALL-RD	750	J	1/2W	R202			RK73GB2A103J	CHIP R	10K	J	1/10W
R119			RK73GB2A821J	CHIP R	820	J	1/10W	R203,204			RK73GB2A560J	CHIP R	56	J	1/10W
R120			RK73GB2A472J	CHIP R	4.7K	J	1/10W	R205			RK73GB2A102J	CHIP R	1.0K	J	1/10W
R121			RD14NB2E470J	RD	47	J	1/4W	R206			RK73GB2A103J	CHIP R	10K	J	1/10W
R122			RK73GB2A472J	CHIP R	4.7K	J	1/10W	R207,208			RK73GB2A152J	CHIP R	1.5K	J	1/10W
R123			RK73GB2A100J	CHIP R	10	J	1/10W	R209			RK73GB2A473J	CHIP R	47K	J	1/10W
R124			RD14NB2E271J	RD	270	J	1/4W	R210			RK73GB2A203J	CHIP R	20K	J	1/10W
R125			RK73GB2A473J	CHIP R	47K	J	1/10W	R211			RK73GB2A282J	CHIP R	82K	J	1/10W
R126,127			RK73EB2E100J	CHIP R	10	J	1/4W	R212			RK73GB2A472J	CHIP R	4.7K	J	1/10W
R128			RK73GB2A103J	CHIP R	10K	J	1/10W	R213			RK73GB2A123J	CHIP R	12K	J	1/10W
R129			RK73GB2A152J	CHIP R	1.5K	J	1/10W	R214,215			RK73GB2A103J	CHIP R	10K	J	1/10W
R130			RK73GB2A103J	CHIP R	10K	J	1/10W	R216			RK73GB2A682J	CHIP R	6.8K	J	1/10W
R131			RK73EB2E100J	CHIP R	10	J	1/4W	R217			RK73GB2A103J	CHIP R	10K	J	1/10W
R132			RD14NB2E331J	RD	330	J	1/4W	R218			RK73GB2A183J	CHIP R	18K	J	1/10W
R133			RK73EB2E100J	CHIP R	10	J	1/4W	R219			RK73GB2A132J	CHIP R	1.3K	J	1/10W
R134			RD14NB2E122J	RD	1.2K	J	1/4W	R220,221			RK73GB2A203J	CHIP R	20K	J	1/10W
R135			RK73GB2A103J	CHIP R	10K	J	1/10W	R222			RK73GB2A104J	CHIP R	100K	J	1/10W
R136			RD14DB2H152J	SMALL-RD	1.5K	J	1/2W	R223			RK73GB2A203J	CHIP R	20K	J	1/10W
R137			RD14DB2H102J	SMALL-RD	1.0K	J	1/2W	R224			RK73GB2A103J	CHIP R	10K	J	1/10W
R138,139			RD14NB2E470J	RD	47	J	1/4W	R225			RK73GB2A473J	CHIP R	47K	J	1/10W
R142,143			RD14NB2E470J	RD	47	J	1/4W	R226,227			RK73GB2A100J	CHIP R	10	J	1/10W
R144			RK73GB2A473J	CHIP R	47K	J	1/10W	R228			RK73GB2A153J	CHIP R	15K	J	1/10W
R147			RK73GB2A332J	CHIP R	3.3K	J	1/10W	R229			RK73GB2A271J	CHIP R	270	J	1/10W
R148-151			RD14NB2E101J	RD	100	J	1/4W	R230			RK73GB2A133J	CHIP R	13K	J	1/10W
R152,153			RK73EB2E473J	CHIP R	47K	J	1/4W	R231			RK73GB2A471J	CHIP R	470	J	1/10W
R154,155			RK73GB2A473J	CHIP R	47K	J	1/10W	R232			RK73GB2A102J	CHIP R	1.0K	J	1/10W
R156			RD14BB2C563J	RD	56K	J	1/6W	R234,235			RK73GB2A470J	CHIP R	47	J	1/10W
R157-160			RK73EB2E100J	CHIP R	10	J	1/4W	R236,237			RK73GB2A101J	CHIP R	100	J	1/10W
R161,162			R92-0205-05	METAL-PLATE	0.1	K	2W	R238			RK73GB2A122J	CHIP R	1.2K	J	1/10W
R163			RK73GB2A562J	CHIP R	5.6K	J	1/10W	R240			RK73GB2A104J	CHIP R	100K	J	1/10W
R164-169			R92-0205-05	METAL-PLATE	0.1	K	2W	R241			RK73GB2A512J	CHIP R	5.1K	J	1/10W
R170,171			RD14DB2H220J	SMALL-RD	22	J	1/2W	R242			RD14BB2C473J	RD	47K	J	1/6W
R172,173			R92-0205-05	METAL-PLATE	0.1	K	2W	R243			RK73GB2A4473J	CHIP R	47K	J	1/10W
R174			RK73GB2A102J	CHIP R	1.0K	J	1/10W	R244			RD14BB2C153J	RD	15K	J	1/6W
R176,177			RK73GB2A332J	CHIP R	3.3K	J	1/10W	R254,255			RK73GB2A182J	CHIP R	1.8K	J	1/10W
R178			RS14KB3D4R7J	FL-PROOF RS	4.7	J	2W	R256			RK73GB2A103J	CHIP R	10K	J	1/10W
R179			RK73GB2A103J	CHIP R	10K	J	1/10W	R257			RD14BB2C104J	RD	100K	J	1/6W
R180			RS14KB3D4R7J	FL-PROOF RS	4.7	J	2W	R258			RD14BB2C153J	RD	15K	J	1/6W
R181			RK73GB2A514J	CHIP R	510K	J	1/10W	R260,261			RK73GB2A272J	CHIP R	2.7K	J	1/10W

E1 : KAC-PS811D K : KAC-X811D M1 : KAC-X811D
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PARTS LIST

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AUDIO UNIT (X09-5790-10)

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation	Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
R262,263			RK73GB2A101J	CHIP R 100 J 1/10W		W377			R92-1252-05	CHIP R 0 OHM J 1/16W	
R267,268			RK73GB2A105J	CHIP R 1.0M J 1/10W		W378			R92-2053-05	CHIP R 0 J 1/8W	
R269			RK73GB2A104J	CHIP R 100K J 1/10W		W379,380			R92-1252-05	CHIP R 0 OHM J 1/16W	
R270-272			RK73GB2A103J	CHIP R 10K J 1/10W		W381,382			R92-2053-05	CHIP R 0 J 1/8W	
R275,276			RD14BB2C153J	RD 15K J 1/6W		W383			R92-1252-05	CHIP R 0 OHM J 1/16W	
R282			RK73GB2A163J	CHIP R 16K J 1/10W		W384-386			R92-2053-05	CHIP R 0 J 1/8W	
R283-286			RK73GB2A103J	CHIP R 10K J 1/10W		W387			R92-1252-05	CHIP R 0 OHM J 1/16W	
R287			RK73GB2A182J	CHIP R 1.8K J 1/10W		W388			R92-2053-05	CHIP R 0 J 1/8W	
R288,289			RK73GB2A104J	CHIP R 100K J 1/10W		W389,390			R92-1252-05	CHIP R 0 OHM J 1/16W	
R291			RK73GB2A104J	CHIP R 100K J 1/10W		W391			R92-2053-05	CHIP R 0 J 1/8W	
R292			RK73GB2A103J	CHIP R 10K J 1/10W		W392-398			R92-1252-05	CHIP R 0 OHM J 1/16W	
R293			RK73GB2A333J	CHIP R 33K J 1/10W		W399			R92-2053-05	CHIP R 0 J 1/8W	
R294			RK73GB2A511J	CHIP R 510 J 1/10W		W400-402			R92-1252-05	CHIP R 0 OHM J 1/16W	
R295			RK73GB2A102J	CHIP R 1.0K J 1/10W		W403			R92-2053-05	CHIP R 0 J 1/8W	
R301			RK73GB2A103J	CHIP R 10K J 1/10W		W404			R92-1252-05	CHIP R 0 OHM J 1/16W	
R303			RK73GB2A472J	CHIP R 4.7K J 1/10W		W405			R92-2053-05	CHIP R 0 J 1/8W	
R304			RK73GB2A101J	CHIP R 100 J 1/10W		W407-409			R92-1252-05	CHIP R 0 OHM J 1/16W	
R305			RK73GB2A113J	CHIP R 11K J 1/10W		W410,411			R92-2053-05	CHIP R 0 J 1/8W	
R306			RK73GB2A103J	CHIP R 10K J 1/10W		W412-415			R92-1252-05	CHIP R 0 OHM J 1/16W	
R307			RK73GB2A474J	CHIP R 470K J 1/10W		W416			R92-2053-05	CHIP R 0 J 1/8W	
R308-311			RK73GB2A103J	CHIP R 10K J 1/10W		W417-419			R92-1252-05	CHIP R 0 OHM J 1/16W	
R312,313			RK73GB2A101J	CHIP R 100 J 1/10W		W420			R92-2053-05	CHIP R 0 J 1/8W	
R319,320			RK73GB2A103J	CHIP R 10K J 1/10W		W421-424			R92-1252-05	CHIP R 0 OHM J 1/16W	
R321			RK73EB2E102J	CHIP R 1.0K J 1/4W		W425			R92-2053-05	CHIP R 0 J 1/8W	
R322			RK73GB2A100J	CHIP R 10 J 1/10W		W426,427			R92-1252-05	CHIP R 0 OHM J 1/16W	
W301-310			R92-1252-05	CHIP R 0 OHM J 1/16W		W428,429			R92-2053-05	CHIP R 0 J 1/8W	
W311			R92-2053-05	CHIP R 0 J 1/8W		W430-433			R92-1252-05	CHIP R 0 OHM J 1/16W	
W312			R92-1252-05	CHIP R 0 OHM J 1/16W		W434			R92-2053-05	CHIP R 0 J 1/8W	
W313			R92-2053-05	CHIP R 0 J 1/8W		W435-439			R92-1252-05	CHIP R 0 OHM J 1/16W	
W314-316			R92-1252-05	CHIP R 0 OHM J 1/16W		W440			R92-2053-05	CHIP R 0 J 1/8W	
W317-320			R92-2053-05	CHIP R 0 J 1/8W		W441			R92-1252-05	CHIP R 0 OHM J 1/16W	
W322-328			R92-1252-05	CHIP R 0 OHM J 1/16W		W442-445			R92-2053-05	CHIP R 0 J 1/8W	
W329			R92-2053-05	CHIP R 0 J 1/8W		W446			R92-1252-05	CHIP R 0 OHM J 1/16W	
W330			R92-1252-05	CHIP R 0 OHM J 1/16W		W448			R92-2053-05	CHIP R 0 J 1/8W	
W331			R92-2053-05	CHIP R 0 J 1/8W		W450			R92-1252-05	CHIP R 0 OHM J 1/16W	
W332,333			R92-1252-05	CHIP R 0 OHM J 1/16W		W451			R92-2053-05	CHIP R 0 J 1/8W	
W334			R92-2053-05	CHIP R 0 J 1/8W		W452,453			R92-1252-05	CHIP R 0 OHM J 1/16W	
W338,339			R92-2053-05	CHIP R 0 J 1/8W		W457			R92-1252-05	CHIP R 0 OHM J 1/16W	
W340-342			R92-1252-05	CHIP R 0 OHM J 1/16W		W458-463			R92-2053-05	CHIP R 0 J 1/8W	
W343			R92-2053-05	CHIP R 0 J 1/8W		W464			R92-1252-05	CHIP R 0 OHM J 1/16W	
W344-346			R92-1252-05	CHIP R 0 OHM J 1/16W		W468			R92-1252-05	CHIP R 0 OHM J 1/16W	
W347,348			R92-2053-05	CHIP R 0 J 1/8W		W469			R92-2053-05	CHIP R 0 J 1/8W	
W350-352			R92-1252-05	CHIP R 0 OHM J 1/16W		S1			S68-0806-05	PUSH SWITCH	
W353			R92-2053-05	CHIP R 0 J 1/8W		S6		*	S79-0843-05	DIP SWITCHES	
W354			R92-1252-05	CHIP R 0 OHM J 1/16W							
W356,357			R92-1252-05	CHIP R 0 OHM J 1/16W		D1			1SS133	DIODE	
W358			R92-2053-05	CHIP R 0 J 1/8W		D3			UMZ6.8N	ZENER DIODE	
W359			R92-1252-05	CHIP R 0 OHM J 1/16W		D4			RD6.2JS(B2)	ZENER DIODE	
W361			R92-2053-05	CHIP R 0 J 1/8W		D5			UMZ6.8N	ZENER DIODE	
W362-365			R92-1252-05	CHIP R 0 OHM J 1/16W		D8			RD6.2JS(B2)	ZENER DIODE	
W366,367			R92-2053-05	CHIP R 0 J 1/8W		D9			B30-1601-05	LED	
W368			R92-1252-05	CHIP R 0 OHM J 1/16W		D10,11			1SS355	DIODE	
W369-371			R92-2053-05	CHIP R 0 J 1/8W		D12-15			1SS133	DIODE	
W372-374			R92-1252-05	CHIP R 0 OHM J 1/16W		D17			UDZS10B	ZENER DIODE	
W375,376			R92-2053-05	CHIP R 0 J 1/8W		D18,19			1SS355	DIODE	

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KAC-PS811D/X811D

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Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation	Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
D20			UDZS10B	ZENER DIODE		Q4-6			2SA1576A	TRANSISTOR	
D21,22			1SS133	DIODE		Q7,8			DTC114EUA	DIGITAL TRANSISTOR	
D23			RD5.1JS(B2)	ZENER DIODE		Q9			DTA114EUA	DIGITAL TRANSISTOR	
D24,25			1SS133	DIODE		Q10			2SC4081	TRANSISTOR	
D26			UDZS5.1B	ZENER DIODE		Q15			2SC3478A(L,K)	TRANSISTOR	
D27,28			1SS133	DIODE		Q16,17			2SA1576A	TRANSISTOR	
D30,31			1SS133	DIODE		Q18			2SC3478A(L,K)	TRANSISTOR	
D32			UDZS10B	ZENER DIODE		Q19			2SA1352(E,F)	TRANSISTOR	
D33			UDZS2.7B	ZENER DIODE		Q20			2SA1576A	TRANSISTOR	
D34	*		UDZS16B	ZENER DIODE		Q21,22			2SA1352(E,F)	TRANSISTOR	
D37			RD15JS(B)	ZENER DIODE		Q23			2SD1863	TRANSISTOR	
D38	*		FCH20A20	DIODE		Q24			2SC4081	TRANSISTOR	
D39	*		FRH20A20	DIODE		Q25	*		2SC4467NF	TRANSISTOR	
D40-43			1SS133	DIODE		Q26	*		2SA1859ANF	TRANSISTOR	
D44			UDZS5.1B	ZENER DIODE		Q27,28			2SA1352(E,F)	TRANSISTOR	
D46			UDZS5.1B	ZENER DIODE		Q29			2SC1845(F,E)	TRANSISTOR	
D48			1SS355	DIODE		Q30			2SA992(F,E)	TRANSISTOR	
D49			UDZS5.1B	ZENER DIODE		Q31			2SA1376A(L,K)	TRANSISTOR	
D50			UDZS6.8B	ZENER DIODE		Q33			2SC3478A(L,K)	TRANSISTOR	
D51			RD15JS(B)	ZENER DIODE		Q35			DTC114EUA	DIGITAL TRANSISTOR	
D52,53			1SS355	DIODE		Q36			DTA114EUA	DIGITAL TRANSISTOR	
D54	*		RM4ZLF-J1NF	DIODE		Q37			2SC3478A(L,K)	TRANSISTOR	
D55			1SS355	DIODE		Q38			2SA1286-T11	TRANSISTOR	
D56,57	*		RM4ZLF-J1NF	DIODE		Q39	*		2SC3902	TRANSISTOR	
D58			1SS355	DIODE		Q40			2SA1286-T11	TRANSISTOR	
D59			DA204U	DIODE		Q41			DTC114EUA	DIGITAL TRANSISTOR	
D60-62			UMZ6.8N	ZENER DIODE		Q42			2SC3478A(L,K)	TRANSISTOR	
D64,65			1SS355	DIODE		Q43			2SA1286-T11	TRANSISTOR	
D69	*		UDZS16B	ZENER DIODE		Q44	*		2SC3902	TRANSISTOR	
D70,71			1SS355	DIODE		Q45			2SA1286-T11	TRANSISTOR	
D76			LM1MA142WA-G	DIODE		Q46			DTC114EUA	DIGITAL TRANSISTOR	
D77	*		LM1MA142WK-G	DIODE		Q47			2SD1863	TRANSISTOR	
D80	*		LM1MA142WK-G	DIODE		Q48-51			STW34NB20	FET	
D81			1SS355	DIODE		Q52			2SC3478A(L,K)	TRANSISTOR	
D82			UDZS5.1B	ZENER DIODE		Q53,54			2SA1376A(L,K)	TRANSISTOR	
D86			UDZS4.7B	ZENER DIODE		Q55			2SC3478A(L,K)	TRANSISTOR	
D89	*		S5566B-Q	DIODE		Q57,58	*		2SK3662-F	FET	
D90			1SS355	DIODE		Q59			DTC114EUA	DIGITAL TRANSISTOR	
D91			DA204U	DIODE		Q60,61	*		2SK3662-F	FET	
D92,93			RD24ES(B)	ZENER DIODE		Q62			2SC4081	TRANSISTOR	
D94			UMZ6.8N	ZENER DIODE		Q63			DTA114EUA	DIGITAL TRANSISTOR	
IC1,2			BA4560F	IC		Q64,65	*		2SK3662-F	FET	
IC3			NJM319D	ANALOGUE IC		Q66			2SC4081	TRANSISTOR	
IC4,5	*		SN74HC00D	MOS-IC		Q67-70	*		2SK3662-F	FET	
IC6			BA10393F	ANALOGUE IC		Q71			2SC4081	TRANSISTOR	
IC7			BA4560F	IC		Q72			2SA1576A	TRANSISTOR	
IC10	*		784224YGC117	MICROCONTROLLER IC		Q73			2SC4081	TRANSISTOR	
IC11			PST3436UL-E	MOS-IC		Q74			2SC4097	TRANSISTOR	
IC13			UPC494GS	ANALOGUE IC		Q75,76			2SA1577	TRANSISTOR	
IC14			BA4560F	IC		Q77			2SC4097	TRANSISTOR	
IC15	*		P82B96PN	ANALOGUE IC		Q78			2SC4081	TRANSISTOR	
IC16			BA10393F	ANALOGUE IC		Q79			DTC114EUA	DIGITAL TRANSISTOR	
Q1			2SC4081	TRANSISTOR		Q80			2SB1241	TRANSISTOR	
Q2			2SA1576A	TRANSISTOR		Q81,82			DTA114EUA	DIGITAL TRANSISTOR	
Q3			2SC4081	TRANSISTOR		Q83			2SD1863	TRANSISTOR	

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Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation	Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
Q84		*	2SK246(BL)-F	FET							
Q86			DTC114EUA	DIGITAL TRANSISTOR							
Q88,89			2SC4081	TRANSISTOR							
Q95			DTA114EUA	DIGITAL TRANSISTOR							
Q96			DTC114EUA	DIGITAL TRANSISTOR							
Q97-99			2SC4081	TRANSISTOR							
Q102			DTA114EUA	DIGITAL TRANSISTOR							
Q103,104			2SC945(A)(Q,P)	TRANSISTOR							
Q106			2SB1238	TRANSISTOR							
Q107,108			2SC4081	TRANSISTOR							
Q109		*	DTC114EUA	TRANSISTOR							
Q110			2SA992(F,E)	TRANSISTOR							
Q111			DTA114EUA	TRANSISTOR							
TH1		*	NT732ATTD103J	THERMISTOR							

KAC-PS811D/X811D

SPECIFICATIONS

KAC-PS811D

AUDIO SECTION

Rated Power Output (4Ω, 20Hz~200Hz)	300W (0.5% THD)
(2Ω, 100Hz)	600W (0.5% THD)
Bridged Power (4Ω, 20Hz~200Hz)	400W (0.5% THD)
(4Ω, DIN45324)	400W (0.5% THD)
(2Ω, 100Hz)	800W (0.5% THD)
(1Ω, 100Hz)	1000W (1.0% THD)
MAX Power Output	1600W
Low-Pass Filter	50Hz~200Hz (24dB/oct)
Infrasonic Filter	OFF/15Hz/25Hz (24dB/oct)
Phase Inverter	0°/180°
Frequency Response	5Hz~200Hz (+0, -3dB)
S/N Ratio	100dB
Sensitivity (Max)	0.2V (Rated Output)
Sensitivity (Min)	5V (Rated Output)
Input Impedance	10kΩ

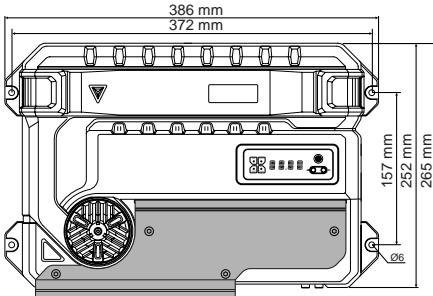
AMP CONTROL SECTION (EQ)

Bass Frequency Control	60Hz, 80Hz, 100Hz, 200Hz
Bass Level Control	-15dB to +15dB
Bass Q Factor Control	1.00, 1.25, 1.50, 2.00

GENERAL

Operating Voltage (11~16V allowable)	14.4V
Current Consumption (100Hz, 10% THD) at 4Ω	55A
Size (with out dress plate) (W x H x D) 386 x 61 x 259.5 (mm), 15-1/5 x 2-2/5 x 10-1/5 (inch)	
Installation Size (foot point) (W x H x D) 386 x 61 x 265 (mm), 15-1/5 x 2-2/5 x 10-2/5 (inch)	
Weight	4.07kg (8.97 lbs)

Installation



KENWOOD CORPORATION

2967-3, Ishikawa-machi, Hachioji-shi, Tokyo, 192-8525 Japan

KENWOOD USA CORPORATION

P.O. Box 22745, 2201 East Dominguez Street, Long Beach, CA 90801-5745, U.S.A.

KENWOOD ELECTRONICS CANADA INC.

6070 Kestrel Road, Mississauga, Ontario, Canada L5T 1S8

KENWOOD ELECTRONICS LATIN AMERICA S.A.

P.O. Box 55-2791 Paitilla, Plaza Credicorp Bank Panama,

Piso 9, Oficina 901, Calle 50, Panama, Rep. de Panama

KENWOOD ELECTRONICS BRASIL LTDA.

Alameda Ministro Rocha Azevedo No. 456,

Edificio Jaú, 100 Andar, Cerqueira César, Cep 0140-001,

São Paulo-SP-Brasil

KENWOOD ELECTRONICS UK LIMITED

Kenwood House, Dwight Road, Watford, Herts, WD18 9EB, United Kingdom

KENWOOD ELECTRONICS DEUTSCHLAND GMBH

Rembrücke-Str. 15, 63150 Heusenstamm, Germany

KENWOOD ELECTRONICS FRANCE S.A.

13, Boulevard Ney, 75018 Paris, France

KENWOOD ELECTRONICS BELGIUM N.V.

Leuvensesteenweg 248 J, 1800 Vilvoorde, Belgium

KAC-X811D

AUDIO SECTION

RMS Power Output (4Ω/1ch)	533W (1.0% THD+N)
(2Ω/1ch)	919W (1.0% THD+N)
(1Ω/1ch)	1016W (1.0% THD+N)

Dynamic Power

Output Regulation

Signal to Noise Ratio

Signal to Noise Ratio (Bypass)

Rated Power Output (4Ω, 20Hz~200Hz, 12V)

(2Ω, 100Hz, 12V)

(4Ω, 20Hz~200Hz, 14.4V)

(4Ω, DIN45324, 14.4V)

(2Ω, 100Hz, 14.4V)

(1Ω, 100Hz, 14.4V)

MAX Power Output

Low-Pass Filter

Infrasonic Filter

Phase Inverter

Frequency Response

Sensitivity (Max)

Sensitivity (Min)

Input Impedance

AMP CONTROL SECTION (EQ)

Bass Frequency Control	60Hz, 80Hz, 100Hz, 200Hz
Bass Level Control	-15dB to +15dB
Bass Q Factor Control	1.00, 1.25, 1.50, 2.00

GENERAL

Operating Voltage (11~16V allowable)	14.4V
Current Consumption (100Hz, 10% THD) at 4Ω	55A
Size (with out dress plate) (W x H x D) 386 x 61 x 259.5 (mm), 15-1/5 x 2-2/5 x 10-1/5 (inch)	
Installation Size (foot point) (W x H x D) 386 x 61 x 265 (mm), 15-1/5 x 2-2/5 x 10-2/5 (inch)	
Weight	4.07kg (8.97 lbs)

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

KENWOOD ELECTRONICS ITALIA S.p.A.

Via G. Sirtori 7/9, 20129 Milano, Italy

KENWOOD IBÉRICA S.A.

Bolivia, 239-08020 Barcelona, Spain

KENWOOD ELECTRONICS AUSTRALIA PTY. LTD. (A.C.N. 001 499 074)

16 Giffnock Avenue, Centrecourt Estate, North Ryde,

N.S.W. 2113, Australia

KENWOOD ELECTRONICS (HONG KONG) LTD.

Unit 3712-3724, Level 37, Tower 1, Metroplaza, 223 Hing Fong Road, Kwai Fong, N.T.,

Hong Kong

KENWOOD ELECTRONICS GULF FZE

P.O. Box 61318, Jebel Ali, Dubai, U.A.E.

KENWOOD ELECTRONICS (THAILAND) CO., LTD.

956 Udom Vidhya Building (Olympia) Rama IV Road, Silom, Bangkok, Thailand

KENWOOD ELECTRONICS SINGAPORE PTE. LTD.

1 Genting Lane, #07-00, Kenwood Building, Singapore, 349544

KENWOOD ELECTRONICS (MALAYSIA) SDN BHD

#4.01 Level 4, Wisma Academy Lot 4A, Jalan 19/1, 46300 Petaling Jaya, Selangor Darul Ehsan, Malaysia